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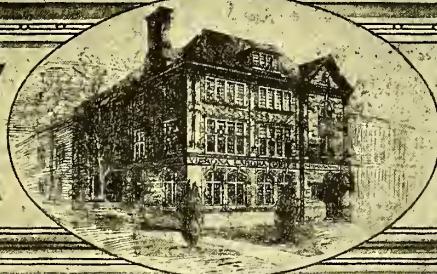
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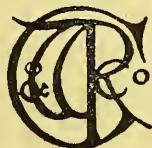
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Maw's Page.

NUMBER 377.

JAN. 4, 1919



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of
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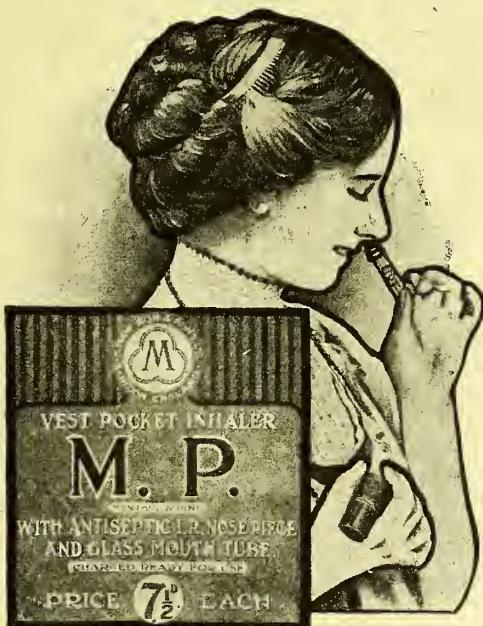
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An effective Inhaler at a reasonable
price, yet bearing a good retail profit.

PRICE **4/6** PER DOZ.

"I have used your Tablets with the most perfect and satisfactory results. The patients I treated with your tablets did not complain of either sickness or depression."

L.R.C.P., L.R.C.S.

"I find your Acid Acetyl-Sal. is the nicest make of that article that I have had so far."

A Pharmacist.

VIS-À-VIS.

In the Trade Report of the "C. & D." for Nov. 9 appears the following:—

"ASPIRIN.—Several defective parcels are being offered on the market, so that caution is advised."

The question arises—What is the ultimate use to which such parcels of spurious Aspirin are put?
Think it over!

"The sample of Acid Acetyl-Sal. is certainly as good as Bayer's. I have seen a lot of samples lately and all have more or less free Salicylic Acid and the acetic odour predominant."

Another
Pharmacist.

We were among the pioneers in establishing the Aspirin manufacture as an all-British Industry, and think we may modestly claim to be producers of Aspirin, which is both physically and chemically the equal of that of German origin—moreover, in our tablets nothing but best grade Aspirin is used
Verb. Sap.

ASPIRIN TABLETS, 5-GRAIN.

Bottles of 25×5 gr. 7/6 per doz. net.
" 100 $\times 5$ gr. 25/- "
Name and Address free on 3 doz. small or 2 doz. large size.

CARRIAGE PAID.

PROMPT DISPATCH.

MENLEY & JAMES, Ltd.,

"Menley House," Farringdon Rd., LONDON, E.C.

"I find my customers prefer your Aspirin Tablets to any other make—therapeutically they are excellent and they are compressed just to the right point."

Yet another
Pharmacist.

MECHANICAL DENTISTRY

Freeman Bros.
WITHAM - HULL.
•Phone—CENTRAL 1290.
NO BRANCHES

**High-Class Work
at Moderate Prices**

**Reliable Staff under Personal Supervision.
Punctuality Guaranteed, & Best Materials.**

W. DAVIS

100 WOOD ST., E.C. 2

Phone: CITY 8220

For OPEN
WINDOW
DISPLAYS.



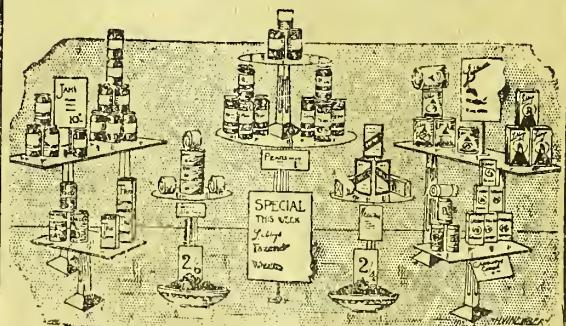
W. DAVIS

100 WOOD ST., E.C. 2

Phone: CITY 8220

For OPEN
WINDOW
DISPLAYS.

WRITE FOR OUR LIST SHOWING MANY
NEW DESIGNS FOR OPEN WINDOW DISPLAYS



Set No. 142.—Suitable for a Window 8 ft. or 9 ft. long. Consisting of 4 24", 1 27", 2 15" and 3 12" OAK PEDESTALS 1 24" x 18", 2 18" x 12", 1 16" x 10" OVAL, and 2 30" x 12", 2 18" x 12" OBLONG PLATE-GLASS SHELVES, and 2 WILLOW BOWLS.

Price 126/- complete.

Our WINDOW PAPERS are 4/3 per roll of 12 yards.
21 in. wide—WRITE FOR SAMPLES.

STOVAINE

**THE LEAST TOXIC OF LOCAL ANÆSTHETICS
USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE**

Does not create a habit and does not give rise to headaches, nausea, vertigo or syncope. :: :: Literature on demand.

NO HOME OFFICE LICENSE REQUIRED

Cheaper than Novocain and Benzocain and obtainable promptly in practically unlimited quantities from the manufacturers:

**LES ETABLISSEMENTS POULENC FRÈRES
— 92, RUE VIEILLE DU TEMPLE, PARIS. —**

*Bay Rum
Cantharidine
& Rosemary
FOR THE HAIR.*

SMART PACK.

ESPECIALLY EFFECTIVE FORMULA.

ATTRACTIVE ART SHOWCARDS.

8-oz. Bottles, 8/6 dozen. 99/- gross.

Less 5 per cent., cash 14 days.

**SPECIAL
OFFER
DURING JANUARY**

WITH EVERY ORDER
for 1 gross we will enclose
 $\frac{1}{2}$ gross of our Famous
SKIN TABLETS, retailing
9/-, FREE.

**CARMOL MANUFACTURING CO.
28 BATH ROW, BIRMINGHAM.**

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

The following prices will come in force as from the date of this issue:—

Advert. Price.		Minimum Retail Price.	Minimum Wholesale Price.
1/-	Daisy Powders (8 powders)	box 1/-	{ 9/- net. 2d. " " (single) " 2d. } { 8/6 by 3 doz. boxes
2/3	" "	(20 powders),	{ 21/- under 1 doz. 2/3 " 2/3 boxes 19/- 3 doz. boxes
6/-	" "	(60 powders),	{ 60/- under 1 doz. bxs. 6/- 5/- 1 doz. boxes
1/3	Tablets	tin 1/3	{ 12/- doz. 11/6 by 3 doz.



STERNS LIMITED

A.D.5., Royal London House, Finsbury Sq., E.C. 2.

Telephone:
3797 LONDON WALL
(Four Lines.)

Telegrams:
"CENTUMVIR, PHONE, LONDON."
(Two Words only.)

WE ADVISE YOU TO STOCK OUR “MOOVIT” CORN PENCILS

which are being extensively advertised. This continual advertising, proven merit, and satisfied customers, have created a steady demand. We furnish attractive showcard and window bills. Why not keep a supply and profit by the easy sales created?

Try a sample dozen 10/-; sells at 15/- which gives you a very handsome profit, and is on the P.A.T.A.

Cash with Order. All goods are carriage paid. The time to order is now, while you have the matter before you.

TALBOT WILSON,
20 HIGHGATE ROAD, LONDON, N.W. 5

BRITISH MADE

Collapsible Tubes

Perfume and
Sprinklers

Tin
Boxes

THE JOHN DALE MFG. COY
New Southgate, LONDON, N.11.

A magnificent Offer



It is our intention to have AYRTON'S TEA TABLETS universally used.

We do not delude ourselves with the idea that Ayrton's Tablets will displace loose tea at mealtime, but Ayrton's Tablets are superior to loose tea for the early morning and other occasional cups of tea. They also have solid advantages for Workshop and Office use.

We are completing fresh window matter and make the following offer for your window space :—

With 1 gross AYRTON'S TEA TABLETS, 96/-
A WINDOW SHOW BONUS OF 3 DOZEN

With 4 doz. AYRTON'S TEA TABLETS at 8/3 per doz.
A WINDOW SHOW BONUS OF 1 DOZEN

**We pay Carriage
on 4 dozen
Ayrton's
Tea Tablets**

*A*YRTON, S_AUNDERS & C_O.
LTD. LIVERPOOL.

IT WILL BE TO THE ADVANTAGE OF BUYERS OF

AMERICAN U.S.P. White Milk Sugar

TO COMMUNICATE WITH

MORRIS & JONES, Ltd., 82/86 Whitechapel, Liverpool.

TELEGRAPHIC ADDRESS: "SPOTLESS LIVERPOOL."

TELEPHONE NO.: ROYAL 4820.

SACCHARINE

BENGOL TRADING CO., Inc., Gresham House, Old Broad St., E.C. 2. Telephone: London Wall, 4597, 4598.

Tele. Add.: "Bengol, Gresham House, London." (1)

SPECIAL OFFER OF SACCHARIN TABLETS.

Full Strength, Guaranteed 330 $\frac{1}{4}$ -gr.
 $\frac{13}{7}$ /per 1,000 for not less than 1 lb. (7,000).
 $\frac{1}{2}$ -gr., 10/- per 1,000 for not less than 1 lb. (8,000).

(Special quotation for large quantities.)

Cheque with order, crossed London City & Midland Bank.
 WATSON & CO., Tablet Mfs., Quorn, LOUGHBOROUGH

SACCHARIN TABLETS.

Exceptional Offer.	Cash with Order.
	$\frac{1}{2}$ grain 330.
1 lb. (Average over 7,000)	£4 0 0
5 lb. " " @	£3 19 0
10 lb. " " @	£3 18 0
20 lb. " " @	£3 17 0

MARSH, BROOKS & Co., 58 Victoria Sq., BOLTON.

Saccharin Tablets.

$\frac{1}{2}$ gr., 330 in 1. Guaranteed the Genuine Article.
 $\frac{1}{2}$ gr. per lb. Cash with Order.
 Delivery per return. Reg. post paid. Special quotations for large quantities.
 HENRY BOWN, Chemist, 154 Cemetery Road,
 SHEFFIELD.
 Telegrams: 2742 Sheffield.

DAMANCY & CO., HARROW

SACCHARIN (Monsanto) TABLETS

$\frac{1}{4}$ gr. 330 in each tablet	... ... ...	5/9 per 1,000.
$\frac{1}{2}$ gr. " " "	... ... ...	7/9 " "
$\frac{1}{4}$ gr. " " "	... ... ...	10/9 " "
Cash with order.		Carriage paid.

MEET COMPETITION! SACCHARIN TEA SWEETENERS.

(UNCONTROLLED).

In Envelopes of 100, Retail 1/7½
 Wholesale, 19/6 per doz., less 25%.
 Carriage paid. Cash with order.

A. S. PRICE & CO. Ltd., Blackheath, BIRMINGHAM

HOLMIER SACCHARIN TABLETS.

REDUCTION IN PRICE. All approx. 8,000 to 1 lb. American Saccharin

5,000 lots ... $\frac{1}{2}$ -gr. 11/6 3-gr. 15/9 $\frac{1}{2}$ -gr. 17/3 per 1,000

10,000 - - 11/3 - 15/6 - 17/-

20,000 - - 11/- - 15/3 - 16/9

50,000 - - 10/9 - 16/- - 16/6

100,000 - - 10/6 - 15/9 - 16/3

Cash with Order. Reg. Post Paid. Immediate Delivery.

Orders less than 5,000 will be 8d. per 1,000 extra.

MEYER, Manufacturing Chemists, 98 COLMORE ROW, BIRMINGHAM

The Holoyd Page

Ready!

To-day the facilities offered by our new laboratories await you.

Our equipment includes the latest and most modern labour-saving machinery, and bulk buyers will appreciate the speedy and economical manner in which we can produce for them.

We are ready!—Ready to supply—

**COMPRESSED TABLETS.
EMULSIONS. OINTMENTS.
TOILET CREAMS.
PACKED TOILET PREPARATIONS
and REMEDIES.
TOOTH POWDERS AND PASTES.
TOILET POWDERS.**

And will pack under customer's own labels, or prepare, if they wish it, from their own formulæ.

Let us hear from you.

Don't forget to ask for the Holoyd Magazine.

H. O. LLOYD
The Holoyd Laboratories
Green Lane, Small Heath
Birmingham
London Depot:
3 Finsbury Square, E.C. 2.

Saccharin Tablets

are offered at controlled
prices with positive guaran-
tee of strength and quality.

**DO NOT RISK
PROSECUTION
SELL**

SACCHARIN TABLETS

Guaranteed by the Maker.
(Average over 7,000 to the pound).

($\frac{1}{2}$ gr. = 330 in 1.)

1 lb. Lots	...	...	80/- per lb.
2 lb. "	...	...	79/- "
5 lb. "	...	...	78/- "
10 lb. "	...	...	77/- "
25 lb. "	...	...	75/- "

10,000 lots at 11/6 per thousand.

100,000 lots at 11/3 "

1,000,000 lots at 10/9 "

100's packed in boxes at 14/3 per dozen.

($\frac{1}{2}$ gr. = 330 in 1.)

1 lb. Lots	...	...	65/- per lb.
2 lb. "	...	...	64/- "
5 lb. "	...	...	63/- "
10 lb. "	...	...	62/- "
25 lb. "	...	...	62/- "

10,000 lots at 9/6 per thousand.

100,000 lots at 9/3 "

1,000,000 lots at 9/- per dozen.

100's packed in boxes at 12/- per dozen.

($\frac{1}{2}$ gr. = 330 in 1.)

1 lb. Lots	...	...	50/- per lb.
2 lb. "	...	...	49/- "
5 lb. "	...	...	48/- "
10 lb. "	...	...	47/- "
25 lb. "	...	...	45/- "

10,000 lots at 7/6 per thousand.

100,000 lots at 7/3 "

1,000,000 lots at 7/- "

100's packed in boxes at 9/- per dozen.

**Cash with Order. Window Bills Free.
Immediate Delivery.**

Transparent Hygienic Teats Free.

During the next week we shall send 6 dozens of Hygienic Teats free to each customer of £5 value and upwards.

**WALTON, Chemist,
BATLEY.**

GREAT REDUCTION.

Saccharin Tablets

GUARANTEED FULL STRENGTH.

$\frac{1}{2}$ grain 330 in 1.

1 lb. lots 80/- per lb.

2 " " 79/- "

5 " " 78/- "

10 " " 77/- "

10,000 ... 11/6 per 1000

100,000 ... 11/- "

To-day, owing to our large output and favourable buying, we are still enabled to lead both as to quality and price. The Market for the last few weeks has developed well for the buyer.

**Envelopes containing 100
UNCONTROLLED**

SACCHARIN TABLETS

to retail at 1/7½ each, 13/6 per doz.

Cash with Order. Immediate Delivery.

Registered Post Free.

**AUSTIN, Wholesale Chemist,
Alum Rock Rd. BIRMINGHAM.**

Saccharin Tablets AND SACCAS TEA SWEETENERS

SACCHARIN TABLETS, $\frac{1}{4}$ grain (330) 10/6 per 1000

SACCAS SWEETENING TABLETS - 9/- per 1000

SACCAS SWEETENING POWDER IN PACKETS.

Equal to $\frac{1}{4}$ lb. sugar, 3/10 per doz.

" " $\frac{1}{2}$ " " 7/6 "

" " 1 " " 14/- "

CONFECTIONERS' SWEETENING POWDER

16 times sweeter than sugar, 15/- per lb.
£76 per cwt.

Prompt free delivery.

Cash with order.

THE THAMES CHEMICAL CO., LTD.
12 Norfolk Street, Strand, W.C. 2

SACCHARINE

INSOLUBLE - GUARANTEED U. S. P. 550.

Spot and Forward Deliveries

Also METHYL SALICYLATE.

WRITE

GASTON, WILLIAMS & WIGMORE, Ltd.

20 BISHOPSGATE, E.C. 2.

TELEPHONE : London Wall 3040.

T. A. : " Gastonorge, London." (1)

SACCHARIN 550

COUMARIN

VANILLIN

HELIOTROPIN

GRANT, HUGHES & CO.

21 Mincing Lane LONDON, E.C. 3.

Telephone—Avenue 4567.

Teleg. Address—"Nitroform London."

Aspirin Tablets

in Bulk.

5 grs. 13/- per 1000.

In bottles of 25, 6/-, of 50, 10/-, of 100, 19/- per doz.

Saccharin Tablets $\frac{1}{2}$ grain 6/- per 1000.

" " $\frac{1}{2}$ " 8/- " 1000.

" " $\frac{1}{2}$ " 11/- " 1000.

Cash with order. Postage free.

Special prices for larger orders.

THE B. & A. TRADING CO.

Akima Works, 65 Regent's Park, Road, LONDON, N.W. 3.

DAMANCY & CO., HARROW.

SACCHARIN (MONSANTO) TABLETS

$\frac{1}{4}$ gr. 330 in each tablet ... 5/9 per 1000.

$\frac{1}{2}$ gr. " " " " " 7/9 .. "

$\frac{1}{2}$ gr. " " " " " 10/9 .. "

ASPIRIN TABLETS

12/- per 1000

Cash with order.

Carriage paid

ELEY BROTHERS, LIMITED

specialise in the manufacture of the following articles at the lowest prices :

Shaving Stick Cases

Oval and Round Tops

for Powder Tins, Cruets, Dredgers, etc.

Metal Boxes

for Dentifrices, Soap Tablets, etc.

Ferrules

for Walking Sticks, Whips, Bamboo Fittings, etc.

Pencil Fittings

in any of the following metals : Brass, Copper or White metal (nickel or silver plated) Aluminium and Jewellers' Metal (Tombac).

During the continuance of the War we cannot undertake orders to make any of the above goods requiring one or more of the metals for their manufacture of which the use for commercial purposes has been prohibited by H.M. Government; but we invite inquiries, as we still have some articles in stock which were made before the prohibition was issued.

ELEY BROTHERS, Ltd.
(Dept. 21), Edmonton, London, N.

STIPENDUM CORK STOPPERS
in all sizes suitable for KALIS, CITRATES, DISPENSING, and all FLUIDS.

STIPENDUM COVERED POTS
THE BEST FOR FACE AND TOOTH POWDERS PASTES, AND OINTMENTS.
GREASE PROOF.

For Samples & particulars apply to
The Stipendum Stopper Co.,
1 Newman Street,
LONDON, W.
Tel. No. 3769
GERRARD.

EVEN WHEN UPSIDE DOWN the contents do not leak if the bottle is capped with **SEMREH** BOTTLE CAPS. They provide a Hermetic Seal.

THE VISCOSE DELVPT. CO., LTD. BROMLEY : KENT.

SACCHARIN. SACCHARIN.
500 Strength. Soluble.
200/- per pound. Carriage paid.

Write—WM. HARRISON, SACCHARIN SPECIALIST Acomb, York.

ART OF DISPENSING. (9th Ed.) 6/-, by Post 6/6.
VETERINARY COUNTER PRACTICE. 4/6, by post 4/11.
CHEMISTS' DICTIONARY OF MEDICAL TERMS. 3/-, by post 3/4.

THE CHEMIST AND DRUGGIST, 42 CANNON ST., E.C. 4

WHOLESALE :

10/-

**Per
Dozen Bottles.**



RETAIL :

1/3

Per Bottle.

No. 896.

"KLONDOL"

is an improved Cleansing Antiseptic of the Lysol Class, and is a really good, powerful, clean working and safe Disinfectant. It is being used in many of the principal Hospitals and Institutions. "Klondol" forms a transparent solution with water, and is of maximum bactericidal potency.

***INCLUDE "KLONDOL"
ON YOUR NEXT ORDER.***

Write for full particulars to

**EDWARD COOK & CO., LTD.,
BOW, LONDON, E. 3.**

PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.

Newcastle-on-Tyne and Cardiff.

"LESCOL" FLORAL PERFUMES NOTICE

ON account of shortage of spirit and raw materials, Perfumes will be very scarce this year ; but as we are holding a very fair stock at remunerative prices to our customers, we strongly advise them to send us their requirements at an early date, in order to avoid disappointment. On receipt of postcard, if possible, one of our representatives will call with samples when next in your vicinity, or we will forward you a complete price list.

We also hold good stocks of ESSENTIAL OILS at lowest market prices, & FLORAL OTTOS, FRUIT ESSENCES, CHEMICALS, &c.

LESCOL PERFUMERY CO.

Lomond Grove, Camberwell Green,
LONDON, S.E. 5.

Telephone: 810 HOP. (Proprietors: The London Essence Co.) Telegrams: "VANILLIN, CAMBER, LONDON."

PRICE'S

REGINA SHAVING STICK

The "worth-while" line is
"REGINA SHAVING STICK."

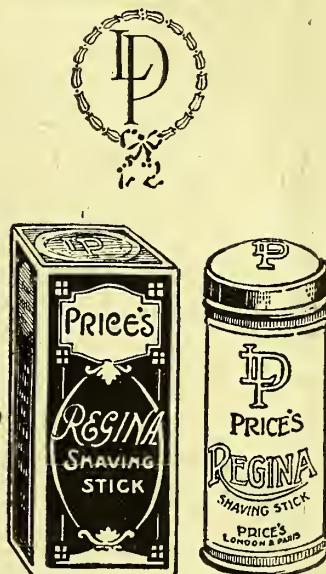
The profit is most attractive,

The quality is high-grade, and press publicity
is helping you all the time.

ASK US ABOUT REGINA.

PRICE'S
Battersea, London, S.W. 11

RETAIL
PRICE 1/-



More business— larger profits.

THE extensive advertising of MOVOL is creating a demand which grows bigger every day.

Advertisements are appearing in leading National publications and Fashion periodicals, telling housewives that Iron-mould, Ink-stains and Fruit-stains are no longer immovable, and that



is sold by Chemists everywhere. Are you participating in the profits?

Mail a P.C. now for trial stock and display material to

W. EDGE & SONS, Ltd.
BOLTON, LANCS.

(The Drummer Dye People.)

OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	
1/6	1/6	9/-	per doz.
2/6	2/3	15/-	less 5 %
3/6	3/3	21/-	discount

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN,
LTD.

DEVON WHARF,

Emmott Street, Mile End, London, E. 1.

FIELD'S "SIANARA" (Regd.) Toilet Soap

With the Enchanting Perfume of OLD JAPAN.

SUPPLIED IN STANDARD **4d.** SIZE AND SHAPE.

ALSO IN

4d., 5d., 6d., and 7d. ROUND BATH.

OWING TO THE LARGE DEMAND, AND IN VIEW OF WAR-TIME DIFFICULTIES OF MANUFACTURE, ORDERS SHOULD BE PLACED WELL IN ADVANCE OF REQUIREMENTS.

J. C. & J. FIELD, Ltd., Toilet Soap Experts. LONDON, S.E.1.

Telegrams: "OZOKERIT, PHONE, LONDON."

ESTABLISHED 1642.

Telephone: HOP 3905.

ANOTHER HOME ARTICLE OF GREAT UTILITY.

"**LUTON**"
Household
Dyes

FOR HOME DYEING.

All these colours will dye either Wool, Silk or Cotton, or mixture of these. No separate dye required for each material. Easy and clean to use. No acids or preparation required. Make home dyeing a matter of interest and pleasure.

A standard range of 12 Colours; other shades supplied.
IN PACKETS, 2d., 3d. and 6d. each, and in Bulk.

Pattern Book. Write for Terms and Patterns.

WHITAKER & CO., COLOUR WORKS,
London Depot: 60-62 Clerkenwell Road, E.C.

Telegraphic Address: "Dullette Kendal." Telephone No. 214.
ESTABLISHED 1878,

Proprietors of the "Luton" Straw Hat Dyes.



1/-
Make your old Hat a new one.
In bottles, 1/- each, in separate neat cartons, with suitable brush.

These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.

NO GLOSS. NO POLISH.
On the P.A.T.A.

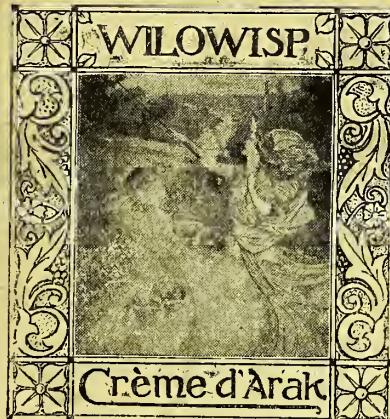
WRITE FOR TERMS, PATTERNS,
ALSO LEAFLET OF TESTIMONIALS.

Luton HAT DYE

WHITAKER & CO., COLOUR WORKS,
London Depot: 60-62 Clerkenwell Road, E.C.

"Glossy" Series supplied if desired.
Special Non-Inflammable Series for Export. Est. 1878.

Telegraphic Address: "Dullette Kendal." Telephone: No. 214.



WILLOWISP CRÈME d'ARAK

An ideal
VANISHING CREAM
for the Face and Hands. Neither
greasy nor sticky.

PROMPT SUPPLIES.
ATTRACTIVELY PACKED.
LIBERAL TERMS.

RETAIL (P.A.T.A.) 1/- PER POT.

Wholesale Price, 8/- per dozen. Window Show terms on application.

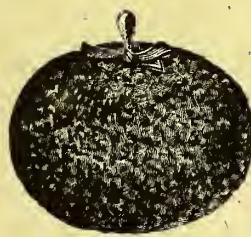
Also "Arak Foam" Shampoo, "Henna" Shampoo, "Dry" Shampoo.

ALL WELL-KNOWN GOOD SELLING LINES.

JOHN TIMPSON & CO., Ltd., 104 & 106 GOLDEN LANE, London, E.C. 1.

'GRAMS' "Porous, Barb, London."

'PHONES: City, 6910 6911.



FOR

Powder Puffs

OF EVERY KIND.

**SOLPORT BROTHERS
LIMITED,**

Wholesale and Export Manufacturers of
Druggists' Sundries and Toilet Accessories,

184 to 190 GOSWELL ROAD
LONDON, E.C. 1.

Veldt Cream

LABEL-TITLE. COPYRIGHT

The Inseparable, just Pourable,
Vanishing SKIN FOOD

of Stearine base, combined with rare ingredients, imparting the natural whiteness and waxy softness of the water lily to
HANDS AND ARMS.

Pays 45% on Monthly Bonus Terms.

Retail	Size	Price	Free Bonus on quantities named, or <i>pro rata</i> .
5d.	1-oz. bottles	48/- gross	2 doz. 1/- with ea. gross
1/-	3-oz. "	9/6 doz.	2 .. 1/- .. 6 doz.
1/9	6-oz. "	16/- "	2 .. 1/- .. 4 ..
2/9	12-oz. bath size bots.	27/- "	2 .. 1/- .. 2 ..

A vigorous Advertising Campaign in preparation

A set of five sale-compelling Showcards (including two reproductions from water-colours) and a 3/6 (retail) monster Showbottle FREE with each carriage-paid order to the value of £3.

Obtainable on bonus terms only from
THE VELDT LABORATORY, Louth, England,
or through our Special Agents,
AYRTON, SAUNDERS & CO., Ltd., LIVERPOOL.

IT PAYS TO PUSH JOHN BOND'S "CRYSTAL PALACE" MARKING INK

Per Doz.

6d. size, **3/7** Minimum protected selling price, 5d.
 1/- " **6/7** " " " " 9d.

43%
Minimum
Protected
Profit

This will show retailers a profit on the 6d. size of no less than 43 per cent. The rate of profit on the 1/- size will remain the same.

43%
Minimum
Protected
Profit

Minimum Order at Wholesale Rates:

One Gross of 6d. size amounting to 38/- or assorted order to same value. 1/- size 69/- per Gross. Carriage paid on parcels of £5 and upwards. Smaller quantities should be ordered through any of the Wholesale Houses.

When ordering, please specify if HEAT or NON-HEAT is required. A good assured minimum Profit on this Marking Ink which will always make new customers.

Compare with what you are paying for other makes, and NOTE the difference. Retailers need not fear with this make competition by cutters.

Manufactory : 75 SOUTHGATE ROAD, LONDON, N. 1.

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL.

I INVITE the Trade to take up the following valuable
P.A.T.A: Protected Lines, bearing a very large
Protected Retail Profit, which sell freely and are
well known and valued by the Public in many parts
of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	9d.	6/6
" " " bottles in cartons	2/-	16/-

***Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.**

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema.	Box.	Doz.
3 Tablets in a box	2/-	18/-
(8d.)		

To the Trade.

We beg to inform the trade that we have going on in the daily press a novel scheme of advertising our unique preparation to the public, and intend that the direct benefit of it shall go straight to our customers.

We therefore strongly advise you to replenish your stocks against this campaign, and orders should be sent early to avoid late deliveries.

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Carriage paid on orders of 60/- net, assorted as desired.

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COW & GATE Food is composed wholly of Rich English Milk, specially prepared to render the whole of the nutritive elements suitable for the perfect nourishment and building up of the infant frame.

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BLUE LABEL	- For Infants from birth to six months.
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BETTER THAN A SHAMPOO

IS NOW BETTER BOXED,
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It will, in short, still more easily compel sales by the appearance of the "get-up." It is a strong twin-lidded box with a new design worked out in sepia and royal blue. It simply cannot help arresting the customers' attention. You ought to be showing this box if you are after "no talk" sales with a real satisfactory profit.

PER DOZ. PROFIT P.A.T.A.

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All the Press Publicity goes on as usual, and all buyers are still told to "go to your chemist," thus you will see that all you have to do is to show it prominently. Quin-Quenna is, as you already know, a Hair Grower, Beautifier, and Lustre-giving Preparation, applied as a shampoo. So don't conflict it with the usual shampoos.

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One of these 6 dozen hand-
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**BEAR IN MIND ALL YOU
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William Toogood, Ltd., 77 Southwark Street, London, S.E.1.

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MEDICINAL COD LIVER OIL
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WHOLESALE ONLY.

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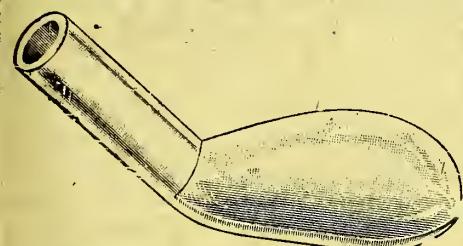
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Teleggraphic Address: "JOB LIVERPOOL" Tel. 1039 CENTRAL.

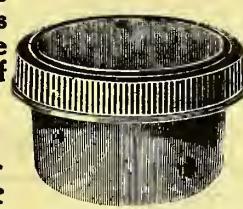
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Composition Corks,
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IT PROFITS EVERYONE.

"KO-TAL-KO" does justice to me, to you and to the public, and every Chemist and Druggist should order a supply.

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An absolutely unique scientific toilet preparation. Harmless and effective. Sells at sight. Widely advertised and shows a splendid margin of profit on minimum protected price. Every Chemist who appreciates the value of quick returns and satisfied customers should stock "WAVCURL". Descriptive circular will be sent to all chemists on applying for it. Special to Wholesalers.

Packets, 1/6, at 9/- per doz. Bots., 2/9, at 21/-per doz.

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SACCHARIN TABLETS

$\frac{1}{4}$ gr. 330 in each tablet.

In	1,000 lots	7/6	per 1,000
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"	10,000	6/9	"
"	50,000	6/6	"
"	100,000	6/3	"
"	1,000,000	6/-	"

S.-C. Bottles of 100, 9/6 per doz. bottles
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*Each tablet is guaranteed to contain
the stipulated quantity of Saccharin.*

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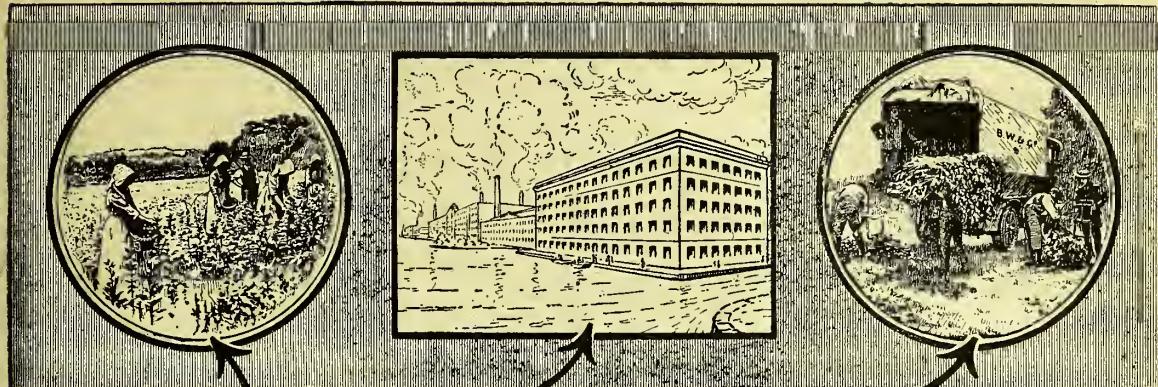
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OWING to continued advances in the cost of production the selling prices of the following articles have been increased, as from Nov. 1st:

Retail Price (P.A.T.A.)	Wholesale Price Per Dozen, NET
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CARBONIC ACID BATHS - 2/3 - 18/-

CARLSBAD SALT - 2/3 - 17/6
(SQUIRREL BRAND)

FROZEN FOAM, small	10 $\frac{1}{2}$ d.	-	7/3	
large	-	1/3	-	10/6

THE BRITISH DRUG HOUSES, Ltd.

22-30, Graham Street, City Road, LONDON, N. I.

The Drug Habit.

THIS matter is still engaging the attention of the lay Press, and a feature of the articles which are now appearing is the demand for heavier penalties for infringements of the Cocaine and Opium Regulation. One paper suggests penal servitude for being in possession of "drugs," which taken literally would place under lock and key most of the adult population of these islands. People who do not think a penalty of a fine not exceeding 100*l.* or six months' imprisonment punishment for infraction of a Defence of the Realm Regulation may be described as panic-stricken and unable to obtain a proper perspective of why punishments are inflicted. A correspondent to the "Manchester Dispatch," signing his letter "M.P.S. (London)," states that "the Pharmacy Act is broken daily." If that is so and he can indicate the supposed offenders, his duty is to inform the Pharmaceutical Society, which exists to carry out the Pharmacy Acts. A writer in the "Daily Express" evidently has his eye on more well-paid jobs for doctors. He writes to that journal :

The flaw in the Act (*sic*) is that the application of the law is left to the police, already overburdened with their proper duties. An inspector visits a chemist's shop and asks to see the cocaine and opium registers. He looks over these to see that the headings are correct, compares them with a printed form which he carefully keeps in his pocket-book, and is apparently satisfied that some entries have been made in each column. He glances over the retained prescriptions, but, of course, as a layman, he cannot possibly decipher them.

What guarantee does the police-inspector obtain that every sale of cocaine or opium has been registered?

The obvious remedy is that the regulations should be extended, first of all to include at least morphia and heroin, and, second, that stocks as well as registers should be inspected. Inspection duties should be taken from the police and placed in the hands of responsible officials drawn from the medical profession or the drug-trade. These officials should be well paid, and devote the whole of their time to the inspection of chemists' shops, to decipher the retained prescriptions, calculate the quantities of the cocaine, etc., which have been sold, weigh the stock remaining on hand, testing it if necessary as to genuineness, and inspect the invoice.

Every wholesaler's sale also should be registered, to be compared in a central department with the inspector's report of the retail shop. In this way every grain, from manufacturer to consumer, could be traced and illegal leakage at once detected.

The question may be asked whether it would not be simpler to prohibit entirely the use of cocaine? Most writers on the subject of the drug-habit overlook the fact that alcohol claims every year thousands of victims, and yet it is allowed to be sold without every transaction being accompanied by the carrying out of numberless checks, entries, and signatures.

Venereal Disease Prophylaxis.

THERE are two views held among medical men as to whether the public should be provided with the knowledge of how to prevent venereal diseases or should be allowed to contract the diseases and then be cured by registered medical men. These parties have been airing their views in "The Times," the one group writing unkind things about the other. The matter is put in the moral plane, but the layman will be excused if he imagines that the material interests of doctors are really at the bottom of the matter. Medical men get well paid for treating venereal disease, but the public could not be asked to pay heavily for a prophylactic treatment. It is stated by the preventive group that :

It has been abundantly proved during the war that venereal diseases can be controlled by the adoption of simple sanitary measures, the success of which is striking, and the materials for which can be obtained from any chemist. These measures should at once be made known and available, and organised instruction given in their application.

One matter which both groups overlook is that the Venereal Disease Act prevents the sale of prophylactic drugs properly labelled.

Cod-liver Oil.

THE year just closed was one of the poorest in regard to yield of Norwegian medicinal cod-liver oil, and one of the highest as regards prices. It will be remembered that the Norwegian Government took over the whole of the production and made a State monopoly of the industry, fixing maximum prices. Thus the principal primary markets in Norway have been closed for several seasons and there has been neither business nor quotations from the usual refiners' and dealers' hands. Inquiries which have recently been addressed to the Norwegian Fat Central intimate that they are not in a position to make any offers of medicinal oil for export, and if later there should be any surplus left the sale of it will be a matter of arrangement between the Norwegian and British Governments, probably on "compensatory" lines. We are now on the eve of another Norwegian fishing season, but it is evident that no matter what the final result of the catch is, the Norwegian Government will continue its monopoly and make it another difficult year for consumers. Our latest advice is that "fishing will take place on a reduced scale owing to shortage of fishing-gear, lack of fuel, and other results of the blockade." This is contrary to the information recently received from another quarter (see *C. & D.*, December 12, p. 48), but it is possible that matters may improve in this respect when fishing actually commences. If the weather is favourable and the cod plentiful, there is not likely to be any lack of effort to reap the harvest, especially as the fishermen have earned considerable profits in spite of the war. As regards prices, opinions differ as to whether they will be lower this season, but judging from the attitude of the Norwegian Government, it will no doubt endeavour to retain its present maximum prices, so that the future course of values remains somewhat obscure.

Synthetic Glycerin.

In our issue of May 12, 1917 (p. 44), we called attention to the fact that Germany was producing synthetic glycerin on a scale sufficiently large to meet the demand for explosive purposes, but no definite particulars were published. It now appears that the United States Government chemists have also discovered a process for producing glycerin synthetically by the fermentation of sugar. This process has been developed by the chemical laboratory of the Bureau of Internal Revenue and is announced for the first time in the annual report of the Secretary of the Treasury which has just been made public. This discovery is declared to be a very important one, assuring, as it does, that there would have been no shortage in the supply of glycerin for war purposes had the armistice not been signed.

"During the spring of 1917," declared Secretary McAdoo in his report, "information reached the Government that glycerin was being produced in large quantities in Germany by a fermenting process, and that by this means the Germans were able to produce supplies of glycerin ample for their war purposes, despite the tremendous diminution in available supplies of fats, from which glycerin is ordinarily recovered. The chemists attached to the laboratory of the Bureau of Internal Revenue were authorised to investigate the problem and undertake its solution."

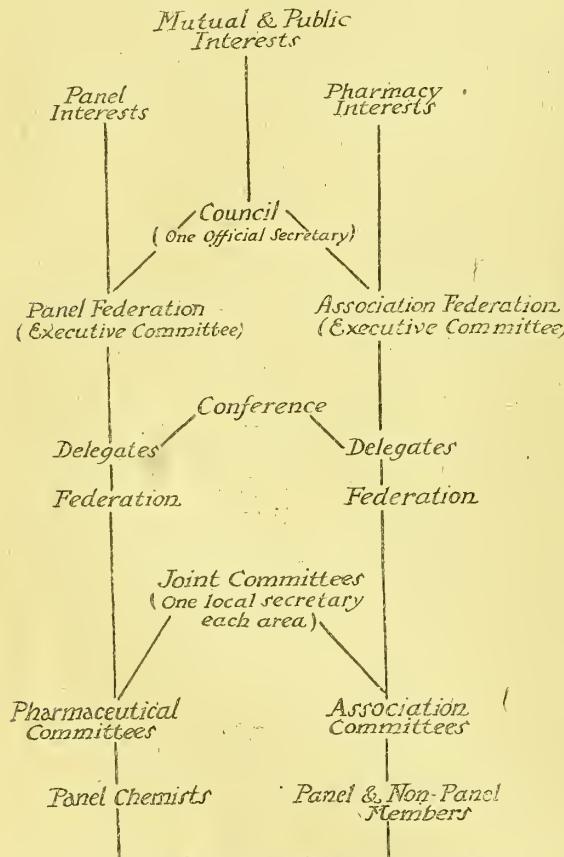
"After three months of experimental work in the laboratory the chemists reported discovery of a synthetic process by which glycerin could be produced in needed quantities, but that the cost of quantity production could not be determined from the small-scale operations to which the laboratory was necessarily restricted. In order to determine whether the process could be made commercially profitable, the Bureau's experiments were extended to a large industrial chemical plant. By February 1918 the process had been tried on a scale sufficiently large to demonstrate both its effectiveness in producing glycerin and the feasibility of its commercial exploitation. Detailed reports describing the process were made by the chemists, and these have been made available to the Governments associated with the United States in the war and to such manufacturers in the United States as have expressed interest in it or purpose to undertake the commercial exploitation of the process."

The fact that the details of the process have been communicated to the Allied Governments is interesting, and doubtless further particulars will be published later as there is now no necessity for secrecy.

Reorganising Pharmacy.

THE question of reorganising pharmacy so that a truly representative body or bodies may be formed has not been settled by the report of the Organisation Committee of the Pharmaceutical Society. The evidence upon which the report referred to was founded has not been published, but some of the chemists who placed their ideas before the Committee have since explained the general lines of the schemes proposed. Mr. H. Antcliffe's scheme formed the subject of a paper before the Sheffield Pharmaceutical and Chemical Society, and Mr. Hugo Wolff's plan was published separately in "Square Topics." Mr. S. F. Body, Southend, made suggestions to the Committee on different lines from those referred to, and we give here the chief points in his scheme.

1. The Pharmaceutical Society to absorb completely into its constitution all Pharmaceutical Associations and Committees throughout Great Britain, so that each and every one becomes in fact an integral part of a complete whole.
2. Reconstruction of the existing organisation so that panel and pharmacy interests may be separately and specifically represented upon federative principles.
3. To provide for mutual conference and joint action.
4. Two Federations to appoint two Executive Committees from territorially elected representatives.
5. These two Executives to unite for joint executive purposes and constitute the Council.



6. Membership of the local Association of the Pharmaceutical Society to include membership of the Society with the privileges now attaching thereto, such being a condition of the admission of qualified chemists to the official local Association.
7. Associateship of the local Association to include Asso-

ciate ship of the Society, and also to be a condition of the admission of unqualified assistants and apprentices to official local Associations.

8. Central administration.

The diagram on the previous column embodies the plan, and the scheme is thus explained by its author.

The Financial Proposals.

PANEL ASSOCIATION.

1. Income of organisation derived from the levy on panel chemists' accounts (any necessary amount up to 1d. per insured person).
2. Pay requisitions to central fund to be administered through the Society's "panel" organisation upon a uniform and equitable basis throughout all areas.
3. Disbursements:
 - (1) Expenses of local Pharmaceutical Committees.
 - (2) Salaries of Secretaries.
 - (3) Organisation expenses [part cost of conference, expenses of Executive Committee, Checking Bureau, negotiation, propaganda, Parliamentary, general administration].
4. Unexpended balance to be paid into reserve fund and maintained as the exclusive property of the Panel Federation.

4. Unexpended balance to be paid into reserve fund and maintained as the exclusive property of the Association Federation.

General Information

Collated for the purpose of demonstrating the necessity for reorganisation.

1. There are about 8,100 chemists in business in England and Wales and 900 in Scotland, a total of 9,000.
2. There are about 7,150 panel chemists in England and Wales and 850 in Scotland, a total of 8,000.
3. This figure indicates nearly 1,000 non-panel chemists in England and Wales alone, a number which may be appreciably increased by retirements.
4. Membership of the Society in January 1916—8,312.
5. Chemists in business, non-members about 2,000, assistants (retired and abroad), non-members about 6,000, a total of 8,000.
6. Total value of annual subscriptions on 1916 basis = 8,312 guineas.
7. Existing benefits for members: Title "M.P.S.", Journal, Library, Museum, Benevolent Fund, Vote, etc.
8. There are 208 Associations in England and Wales, these include local Associations which uniformly exist coterminous with the Insurance areas.
9. There is no district without an Association.
10. These local Associations possess no uniform rules or recognised constitution. They are independent of each other, exercising divergent views, and having no definite policy in common.
11. The normal expenses of the local Association consist in: (a) Room for meetings; (b) stationery; (c) correspondence, etc.; (d) postages; (e) sundries.
12. All members of district Associations are eligible for membership of local Associations (coterminous areas).
13. The Society carries to reserve in normal years about 5,000l.
14. The Society's total reserve = nearly 50,000.
15. The Society has supported (up to 1915), since the inception of the Insurance Act, out of its general funds, the existing organisation, which includes panel interests.
16. The Society's fund has not been reimbursed from any profits yet (1916) arising out of the Checking Bureau, which at present constitutes the sole means whereby funds for organisation expenses may be secured with the knowledge and consent of the Insurance Commission.

Summary.

1. That the financial and functional interests of pharmacists are not at present, nor within measurable distance, of becoming common to all; that there is a section unrelated to National Health Insurance dispensing, due to geographical position, business and temperamental inequalities which are not reconcilable until the National Insurance Act includes members of all grades of society.
2. That pharmacy has since the inception of the Insurance Act undergone division into two distinct groups incapable of successfully uniting for the pursuit of panel interests.
3. That hitherto negotiations have repeatedly failed, and will continue to fail until panel chemists are reorganised.

4. That a special panel department separate as to finance and organisation is necessary.
5. That panel pharmacists are self-supporting.

General Recommendations.

1. That a separate Executive Committee, elected from the Federation upon a territorial basis, be formed to represent panel interests.
2. That a separate Executive Committee, elected from the Federation upon a territorial basis, be formed to represent Association interests.
3. That the Panel Federation be supported by a levy of any necessary amount up to $\frac{1}{2}d.$ per insured person limit, deducted from panel chemists' accounts, and that this money be reserved absolutely to this body.
4. That the Associations Federation be supported by means of augmented membership and associateship subscriptions (at present at the absolute disposal of the Council), and in future to be administered by the Federation.

Mr. Body also supplied an interesting series of arguments for and against each item of the summary.

New Books.

Bliss, A. R. *A Laboratory Manual of Elemental Qualitative Chemical Analysis for Students of Medicine, Dentistry, Pharmacy and Science.* Second edition. $9\frac{1}{4}$ in. $\times 5\frac{3}{8}$ in. Pp. 193. 10s. 6d. (W. B. Saunders Co.) [The introduction passes under review the subjects of solutions, ionisation, electrolysis, reversible actions, mass action, hydrolysis as involved in chemical analysis. The seven analytical groups are then taken in separate chapters, the tests for each metal, etc., being concisely stated. Following a chapter on the detection of acids is one for the analysis of an unknown substance. A well-printed and useful book to the student, who should, however, note that it is an American-printed book, and hence shows a few peculiarities of spelling.]

Campbell, A. *Petroleum Refining.* $8\frac{3}{4}$ in. $\times 6$ in. Pp. xvi + 297. With 138 illustrations, including 29 folding plates and diagrams. 25s. (Chas. Griffin & Co., Ltd.) [Sir Boerton Redwood, Bart., adds a foreword in which it is stated that the author has had unique experience of petroleum refining, and that the work fills a deficiency in the literature of petroleum. The first chapter deals with the examination of crude petroleum with a view of determining the yield of marketable products. The rest of the book (eight chapters) is concerned with refining proper and the products. We find good accounts of the separation and refining of paraffin and the Edeleanu process of purifying petroleum with liquefied sulphur dioxide. A feature of the book is the number of folding plates, which ensures the engineering plans being presented on a fairly large scale. An appendix gives a complete reference-list to literature useful to the petroleum-refiner. The book fills most usefully a gap in petroleum technology.]

Cowan, C. G. A. *Chemical and Drug Trades: an adaptation of Pitman's shorthand to the requirements of correspondence in the chemical and drug trades, with specimens of the forms used and a description of the duties of shorthand typists engaged in such business.* $6\frac{1}{2}$ in. $\times 4$ in. Pp. 77. 2s. (Sir Isaac Pitman & Sons, Ltd.) [Deals with the shorthand equivalents of words and phrases in common use in the chemical and drug trade. The introductory part gives an outline of office work in the chemical and drug trades, both manufacturing and selling. At the end there are examples of the kind of correspondence with chemists shorthand writers will be expected to tackle.]

May, Percy. *The Chemistry of Synthetic Drugs.* Second edition. $8\frac{3}{4}$ in. $\times 5\frac{3}{8}$ in. Pp. 250. 10s. 6d. (Longmans, Green & Co.) [Dr. May reminds us that before the war the manufacture of synthetic drugs was practically confined to Germany, but the progress made in this country in the production of fine chemicals has since the war been very considerable. This has naturally brought a demand for such books as the one under review. The first three chapters are introductory, and deal successively with the theory of the action of synthetic drugs; the effect of various elements and radicals, and the chemical changes of drugs in the organism. The synthetic drugs are then taken in groups—e.g., narcotics, antipyretics, alkaloids, etc. The book is written in such a way that the general reader can readily follow the author, even though the subject is more abstruse than usual. Chemists who desire to understand synthetic remedies should study this book, which is quite up to date, in that the constitution of acriflavine and proflavine is described.]

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

A Hydrocyanic Acid-producing Fern.—Mirande (Academy of Sciences, Paris, November 4, 1918) found that the leaves of *Cystopteris alpina* contain a glucoside which yields hydrocyanic acid by enzyme action. Benzaldehyde is also a product of the hydrolysis of this glucoside.

Panadonin.—Miwa ("Nishin Chiryo," 1, 36) describes this preparation, obtained from *Adonis davurica*, a native Japanese plant known as fukujuso. It is stated to be a substitute for digitalis, an analgesic of value in neuralgia, and has antiphlogistic properties, reducing inflammation in tubercles when administered subcutaneously. The lethal dose for guinea pigs is 0.05 to 0.055 per 10 grams of body weight.

Detection of Sucrose in Milk.—A modification of Gayaux's test for sucrose in milk suggested by G. D. Elsdon ("Analyst," 1918, 43, 292-293) consists in treating 15 c.c. of milk with 1 c.c. of 3N-hydrochloric acid and 0.5 gram of resorcinol. On drying five drops of the resulting mixture on a white tile on the water-bath, a red coloration is obtained in the presence of as little as 0.02 per cent. of sucrose.

Influence of Season on Spearmint.—As the result of investigations extending over several years, Rabak ("Journ. Ind. Eng. Chem." 10, 275-9) has found that the yield of oil in the spearmint plant is affected by seasonal conditions. The maximum content of oil appears to be present during the flowering period, the tops containing the highest percentage of oil. Drying of the plants results in a lower yield of oil, and also causes changes producing an increased ester and alcohol content; on the other hand, freezing of the plant produces a marked increase in the formation of the esters and alcohols representing the odoriferous constituents of the oil. Esterification and alcohol formation tend to increase as the plant matures.

Constituents of Uzara-root.—Uzara-root is used medicinally on account of its anti-diarrhoeic properties; the dried alcoholic extract of the root is placed on the market under the name of "uzaron." Hennig ("Arch. Pharm." 255, 382-405) isolated two glucosides from uzaron, one of which is amorphous, and present in very small amounts; while the other, uzarin, forms colourless needles, melting at about 210° (decomposes about 200°), of the formula $C_{15}H_{10}O_9 \cdot 9H_2O$. On hydrolysis, uzarin yields C_3H_7OH , dextrose and uzaridin, $C_{18}H_{24}O_5 \cdot \frac{1}{2}H_2O$, colourless leaflets decomposing about 246° (anhydrous), the last substance being partly changed to anhydrouzarin, $C_{18}H_{22}O_4 \cdot \frac{1}{2}H_2O$, needles which decomposed at about $208-214^\circ$ (anhydrous). Uzaridin forms a triacetyl derivative, needles melting at $225-227^\circ$.

Detection of Ergotinine.—An alcoholic solution of ergotinine of 1 in 1,240,000 gives a distinct reaction with the potassium mercuric iodide reagent for alkaloids. The addition of sulphuric acid to a solution of ergotinine produces a yellowish-red zone, which changes to violet and then to blue, and is characteristic of this alkaloid. In Rosenthaler's and Keller's modifications of the test a trace of ferric chloride is present, which, according to Wolter ("Chem. Zeit." 1918, 42, 445), confirms the hypothesis that the coloration is due to oxidation, as the ferric chloride can be replaced by a trace of hydrogen peroxide in the test, rendering it twice as sensitive as Tauret's original test. These tests should be applied under definite conditions, particularly the solution of the alkaloid should not be too concentrated, otherwise zones of other colours than blue will be obtained.

Water-poisoning.—In view of the systematic contamination of water by poisons practised by the German armies in France, Gentilucci ("Boll. chim. farm." 57, 8) recommends the application of the following simple tests: (1) A sheet of copper immersed in water, hot or cold, should remain unaltered (absence of mercury and arsenic); (2) the reaction with potassium iodide in the presence of sulphuric acid should be negative (absence of lead, copper, mercury salts, including cyanides); (3) with nascent hydrogen (zinc and sulphuric acid) the Gutzeit test should be negative (absence of arsenic and antimony). In addition, the water should be extracted with chloroform—(a) in alkaline or acid solution, leaving no residue, or only a slight residue, in which case it should not be altered by phosphotungstic acid or solution of potassium iodide (absence of alkaloids, glucosides, ptomaines); (b) in solution of sodium bicarbonate, the residue, if any, should give no reaction with Frohde's solution (absence of morphine). Potassium cyanide was found in a number of samples of water contaminated by the Germans in France.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—CICERO.

SHORTLY after the outbreak of war we commenced publishing under this title lists of chemists, assistants, apprentices, and employés of wholesale houses who had joined the Forces. These lists were continued week by week until the introduction of conscription in 1916. Many of the sailors and soldiers who went from the drug-trade in defence of freedom have sacrificed their lives for the cause. It has been suggested that the Pharmaceutical Society should place at headquarters an Honours Board upon which should be recorded the names of those who have died on service. To assist in this object we have decided to print lists compiled from THE CHEMIST AND DRUGGIST of (1) chemists, (2) chemists' sons, assistants and apprentices, and (3) those connected with the wholesale, who have laid down their lives during the Great War. The first instalment (115 names) follows:

I. Registered Chemists.

Name	Military or Naval Rank and other Titles	Regiment	Year of Death
Allan, N. J.	Captain, M.B., Ch.B.	R.A.M.C.	1918
Amal, J. G.	Private	Somerset L.I.	1916
Baker, C.	Lieutenant, Ph.C.	R.G.A.	1917
Barber, R. C.	Sergeant	R.A.M.C.	1917
Baxter, A. K.	Medical Officer, M.B., Ch.B.	—	1918
Begg, J. A.	Pioneer	R.E.	1917
Bennett, D.	Pioneer	R.E.	1917
Bishop, C. T.	2nd-Lieutenant, Ph.C.	Wiltshires	1917
Black, W. C.	Corporal	London Scot.	1914
Boden, F. G.	Pioneer	R.E.	1918
Boyd, D. T.	2nd-Lieutenant	Cameroniens	1917
Brander, B. M.	Captain, Ph.C.	R.A.M.C.	1918
Brown, E. J.	2nd-Lieutenant	—	1918
Brown, H. I. F.	Sergeant	R.A.M.C.	1915
Buchanan, J. L.	Pioneer	R.E.	1917
Burton, P. H.	Captain, M.R.C.S., L.R.C.P.	R.A.M.C.	1917
Cameron, W. H.	Lance-Corporal	R.A.M.C.	1917
Canham, C. A.	Pioner	R.E.	1917
Carr, C. F.	Lieutenant	Sherwood For.	1917
Chislett, A. R. J.	Captain	H.L.I.	1917
Cook, H. N. F.	2nd-Lieutenant	Queen's	1917
Corrin, C. E.	Seaman	—	1918
Craig, T. P.	Capt., M.R., Ch.B.	R.A.M.C.	1918
Crofts, C. H.	2nd-Lieutenant	King's Own	1918
Cross, E. L.	Corporal	Manchesters	1918
Cruickshanks, R. B.	Pioneer	R.E.	1917
Curtis, A. R.	Sergeant	R.A.M.C.	1918
Davies, A. C.	Private	King's Own	1917
Dennis, G.	Sergeant	—	1918
Dixon, H. J.	Private	—	1916
Dixon, J. H.	Private	—	1916
Dobson, F. R.	2nd-Lieutenant	Yorks, and Lancs.	1918
Dye, P. R.	Rifeman	London Regt.	1916
Evans, E. P.	Lance-Corporal, M.M.	R.E.	1917
Evans, B. T.	2nd-Lieutenant	R. Welsh Fus.	1918
Exley, G. A.	2nd-Lieutenant	R.F.C.	1917
Fargher, A. L.	Private	Royal Fus.	1917
Farrell, F. C.	Pioneer	R.E.	1918
Fletcher, F.	Rifeman	K.R.R.C.	1918
Fryer, W. A.	2nd-Lieutenant	K.R.R.C.	1918
Gale, R. G.	2nd-Lieutenant	R.E.	1918
Gardiner, W. W.	Private	Black Watch	1917
Garry, J.	2nd-Lieutenant	Indian Inf.	1917
Gaulter, C. P.	2nd-Lieutenant	—	1916
Goudny, J. F.	2nd-Lieutenant	London Reg.	1917
Graham, W. H. G.	Corporal	R.A.M.C.	1918
Hall, S. R.	Pioneer	R.E.	1916
Harrison, E. F.	Licut.-Col., C.M.G., Off., Leg., Honour, B.Sc., F.I.C., Ph.C.	R.E.	1918
Hartley, E.	2nd-Lieutenant	Loyal N.L.R.	1917
Haylett, N.	Lieutenant	—	1916
Henson, E. C.	Gunner	R.F.A.	1918
Holton, A. L.	Sergeant	R.A.M.C.	1918
Hopkinson, A. J.	Sergeant	R.A.M.C.	1916
Hough, A.	Sergeant	R.A.M.C.	1918
Huddlestone, S. C.	Lieut., M.B., C.M.	Black Watch	1915
Hughes, J. C.	Sergeant	R. Welsh Fus.	1916
Hunter, D. B.	Sergeant	R.A.M.C.	1916
Jackson, J.	2nd-Lieutenant	Gloucesters	1916
Jardine, W. B.	Sergcant	R.A.P.	1918
Johnson, W.	2nd-Lieutenant	South Staffs.	1916
Jones, Arthur.	Lieutenant	M.G.C.	1913
Jones, Arthur Ll.	Sergeant	R. Welsh Fus.	1918
Jones, Aubrey E.	Lee-Corporal, Ph.C.	—	1916
Jotcham, F.	Lieutenant	R.E.	1918

Name	Military or Naval Rank and other Titles	Regiment	Year of Death
Knox, J.	Lieutenant, M.C., Ph.C.	R.I.R.	1918
Lamplugh, W.	S-Sgt., D.C.M., Ph.C.	—	1916
Legge, H.	Sergeant	R.A.M.C.	1915
Lenton, G.	2nd-Lieutenant, Ph.C.	Bedfordshires	1917
Limon, H.	Private	H.A.C.	1917
Lindley, F.	2nd-Lieutenant	E. Yorkshires	1918
Macbeth, A. H.	Private	Rifle Brigade	1915
MacDonald, P.	Private	K.O.S.B.	1917
Macdonald, R.	Private	Royal Scots.	1917
Mark, J. W.	2nd-Lieutenant, Ph.C.	R.I.R.	1917
Massey, W. L. S.	Sergeant	Yeomanry	1918
Maynard, H. R.	Lance-Corporal	Imp. Camel Corps	1918
Milne, A.	Pioneer	R.E.	1917
Milne, J. C.	Private	R.A.M.C.	1918
Milne, T. H.	Corporal	R.A.M.C.	1915
Morison, A. D.	Private	R. Welsh Fus.	1916
Munsey, W. F.	2nd-Lieutenant	K.R.R.C.	1918
Needham, A.	Corporal	R.E.	1916
Needham, L.	Private	Grenadier Gds.	1915
Ord, H.	Staff-Sergeant	R.A.M.C.	1918
Parrott, L. O.	2nd-Lieutenant	R.F.A.	1918
Pearson, W. H.	2nd-Lieutenant	M.G.C.	1918
Purvis, G. B.	Captain	Yorkshires	1917
Rogers, H. D.	Rifeman	Queen's W.R.	1915
Royston, C. S.	Sergeant	R.F.A.	1917
Sanders, J. H.	2nd-Lieutenant	Scot. Rifles.	1917
Saunders, W. G.	Lieut., Adj., Ph.C.	King's (Liver-pool Regt.)	1916
Seals, J.	Sergeant	A. & S.H.	1917
Sotoner, J. W.	Lt., B.Sc., M.B., Ch.B.	R.A.M.C.	1917
Sim, G.	Private	Royal Fus.	1916
Smart, N.	Private	—	1917
Smith, James S.	Gunner	—	1917
Smith, John	2nd-Lieut., Ph.C.	King's (Liver-pool Regt.)	1918
Snell, R. C.	Sergeant	R.A.M.C.	1915
Speedy, R. C.	2nd-Lieutenant	M.G.C.	1918
Sprott, T.	Sergeant, Ph.C.	R.A.M.C.	1918
Steward, W. J.	Sergeant	Royal Fus.	1916
Stott, K.	Private	—	1916
Strickland, J.	Gunner	R.G.A.	1918
Sutherland, A. H.	Pioneer	R.E.	1916
Walker, T. B.	Corporal	H.A.C.	1917
Warwick, W. N.	Corporal, Ph.C.	R.I.R.	1917
Watson, E. J. W.	Sergeant	R.E.	1916
Watt, G. C.	Sergeant, Ph.C.	Gordons	1915
Weir, J. R.	Bombadier	R.G.A.	1918
White, E. C.	Staff-Sergeant	R.A.M.C.	1918
Whittingham, W. C.	Pioneer	—	1918
Williams, W. G.	Captain	R. Welsh Fus.	1917
Williamson, C. H.	Captain, M.C., Ph.C.	R.F.C.	1917
Wilcox, J. C.	Private	Gordons	1915
Worth, W. H. T.	Sergeant-Major	H.A.C.	1917

Insurance Act Dispensing. A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Surrey.—The Insurance Committee met at Caxton Hall, Westminster, S.W., on January 1, when the Chemists and Military Service Sub-Committee reported on its work and recommended that the reference to it be discharged. The Medical Benefit Sub-Committee reported adversely to the suggestion of the Pharmaceutical Committee that chemists should dispense only urgent prescriptions after 7 p.m. The Pharmaceutical Committee had complained that certain doctors omitted to mark prescriptions "Urgent" when medicine was required on Sundays, and the Clerk was instructed to write to the Panel Committee on the subject. The report of the Finance and General Purposes Sub-Committee mentioned the case of a chemist who forwarded his 1917 accounts in August 1918, and also the complaints of the Pharmaceutical Committee that the Joint Prescription-pricing Committee had rejected accounts, posted on the 3rd of the month, as not being received on the 4th. This matter is to be further inquired into. Payments to chemists have been made of 1,003*l.* 7*s.* 10*d.* for November and 1,165*l.* 6*s.* 2*d.* for December.

Romford Chemists closed for three days at Christmas, giving an hour's evening attendance on December 26 and 27. They have ceased giving any attendance while closed for the weekly half-holiday.

CUPAL, LTD., manufacturing chemists, Phoenix Mill, Blackburn, have given to their workpeople for Christmas 1*l.* each to all adults, and to those under sixteen years of age 10*s.*, and have arranged to begin a forty-four hours' week.

Trade Report.

42 Cannon Street, E.C. 4, January 2, 3 p.m.

WHAT with the prolonged holiday, the General Election turmoil, and stocktaking, there has been an almost complete cessation of business since our last, and until the outlook becomes clearer, hand-to-mouth buying will be the rule. Meanwhile, imports of chemicals and drugs continue small, and little provision is being made for bringing forward supplies, as dealers prefer not to take risks at present. This, of course, may have an eventual hardening effect on prices, but at the moment there are a few holders who are offering their stocks at a sensible reduction. This pressure to sell would, of course, be relieved if export permits were more freely granted, which they are not. The same applies to badly needed imports, licences in regard to which are subject to intolerable delay. Among the changes in values are lower prices for acetic acid to arrive. Acetanilide, aspirin (for forward delivery), potash bromide, hydroquinone, methyl salicylate, and salol are all more or less cheaper. New-crop lemon oil is rather lower, likewise clove oil. Balsam tolu has been selling at more reasonable prices of late.

Higher	Easier	Lower
Barium carbonate	Atropine	Acetanilide
Platinum	Cantharides	Acetic acid (to arr.)
	Ethyl salicylate	Barium nit.
	Hydroquinone	Clove oil
	Lithopone	Lactic acid
	Methyl salicylate	Lemon oil (c.i.f.)
	Phenolphthalein	Pepper (white)
	Salol	Pepsin
	Soda bisulphite	Potash bromide

The first Drug-auction of the year will be held on Thursday, January 16.

Cablegrams.

NEW YORK, December 24.—Business is quiet. Menthol is dearer at \$7.00 per lb. Jalap has been reduced to 60c. Sweet oil of birch has advanced to \$4.50. Gentian is cheaper at 16c. Balsam Peru is higher at \$3.50, and both long and short bughu have been advanced to \$2.60 per lb.

NEW YORK, January 1.—Business is dull. Menthol is 10c. per lb. lower at \$6.90. Copaiaba is steady at 75c. Saccharin is lower at \$7.00, and chemically pure glycerin is lower at 23c. per lb.

American Peppermint Oil.

The following is an extract from a report, dated December 10, received from Mr. F. M. Rudd, of Bronson, by his agents, R. W. Greeff & Co., London:

"Instead of the normal production of 350,000 lb. per annum, the 1918 crop only amounted to 75,000 lb., which together with about 120,000 lb. at present in stock, gives an available supply of less than 200,000 lb. Most of the large consumers in America have covered their requirements for 1919. The market price is at present about \$5 per lb. Mr. Rudd does not expect to see any decline in price for some time, as the consumption both in the U.S. and abroad will no doubt increase now that the war is over and restrictions are withdrawn, while existing supplies are entirely insufficient."

ACETANILIDE is easier at 4s. 6d. per lb. on the spot.

ACETIC ACID.—Business has been done in 80-per-cent. pure at from 115s. to 120s. per ton, and in glacial at 130s. to arrive. As regards shipment, only about 10 per cent. of the tonnage in the U.S.A. appears to be available for chemicals, so that there will be difficulty in getting supplies forward quickly. Those who are fortunate to obtain delivery will be able to realise much higher prices. No formalities are now necessary in connection with the import of acetic acid and its congeners from America.

ACETIC ANHYDRIDE.—When new supplies of glacial acetic acid are available in sufficient quantity, lower prices may be expected for acetic anhydride. This will also affect the position of aspirin and other salicylic products.

AGAR-AGAR.—The exports from Japan during September amounted to 90,811 kin, valued at 118,717 yen. During the nine months ended September 30 they were as follows:

	1916	1917	1918
Kin	2,543,543	1,821,379	2,456,088
Yen	2,221,648	1,680,773	2,728,359

The destinations were as follows:

To	1916	1917	1918
China	431,751	674,117	175,065
Hong-Kong ...	323,219	260,160	113,390
Straits Settlements	117,834	101,480	64,311
Dutch Indies ...	385,993	203,344	244,137
Asiatic Russia ...	149,393	877	336
Great Britain ...	289,524	78,020	1,576,188
France	241,289	93,259	20,120
United States ...	420,354	247,968	117,486
Other countries ...	184,189	162,154	145,055

2,543,543 1,821,379 2,456,088

AM'DCPYRIN is still scarce and very little obtainable in Switzerland, where the factories complain of lack of fuel. It is worth 70s. per lb. even for forward delivery.

ANTIMONY.—The feature has been the big reduction in the price of English refined of 25*l.* a ton to 5*l.*, which compares with 85*l.* a year ago, and the lower figure is official for delivery ex warehouse, while large quantities are still held by the Government. This fall had already been rather heavily discounted by the recent constant fall in the price of foreign regulus, which has thus shown further weakness, its value being nominally 53*l.* to 55*l.* An absence of demand, together with the surplus to be digested, should result in further ease. War use, of course, no longer exists. Chinese crude is quite nominal, but undoubtedly obtainable at substantial concessions, possibly at below 50*l.*

ARSENIC.—The home trade demand has remained very dull owing to the holidays, and the tone seems easy at around 90*l.* a ton delivered London. With shipping improving more competition of foreign material is likely, and the establishment of a lower range of values is not unlikely in the near future. The fact may be recalled that towards last spring the article sold at as high as 155*l.* for best Cornish powder in small lots.

ASAFTIDA.—No arrivals have taken place for a lengthy period, and nothing appears to be afloat.

ASPIRIN.—For prompt delivery holders ask from 16s. to 17s. per lb. as to quantity, but for early delivery there are sellers at about 14s. 6d. per lb.

BALSAM TOLU.—Spot sales have been made at about 10s. 6d. per lb., at which further supplies are available.

BARBITONE is on the easy side, with sellers at 82s. 6d. per lb. on the spot.

BAIRUM SALTS.—Carbonate (90 to 96 per cent.) is dearer at 19*l.* per ton in casks. Powdered Nitrate is lower at 75*s.* per cwt. in casks. Chloride crystals offer at 37*s.* per ton in casks and bags.

BERGAMOT OIL is steady at 25*s.* per lb. on the spot.

BROMIDES are quiet. Potash crystals offer from dealers at 5s. to 5s. 6d. per lb. as to seller and quantity. Ammon. brom. is 4s. 6d. to 4s. 9d., and soda 4s. 6d. to 4s. 3d. Forty cases of soda have arrived.

CADMIUM keeps fairly steady at 8s. 6d. per lb., current supplies being only moderate; additional uses have been found within the past year.

CALCIUM ACID PHOSPHATE for forward delivery is offered at 140*s.* per ton in kegs.

CAMPHOR (REFINED).—Japanese 2*1/2*-lb. slabs are quiet, with sellers at 6s. 9d. on the spot.

CANTHARIDES.—Fair Russian offer at 12s. 9d. per lb. on the spot.

CASCARA SAGRADA.—An arrival of 1,124 bags has taken place to London and 633 bags to Liverpool.

CHLORAL HYDRATE.—There is still an inclination on the part of dealers to clear stocks, and 11s. 6d. per lb., duty paid, is being quoted.

CLOVE OIL.—Distillers quote 17s., and from dealers' hands there are sellers at 15s. per lb.

COPPER SULPHATE.—There is not much export business moving, although there is some talk of things improving soon. When the authorities show themselves agreeable to this by lessening embargo restrictions a more regular business should ensue, although the outlook in the metal is more unsettled than ever.

CREAM OF TARTAR continues quiet and steady, with small spot stocks at from 390*s.* to 400*s.* per cwt.

CREOSOTE CARBONATE is still very scarce, and holders continue to get extremely high prices.

ERGOT.—The following report from the United States Consul at Vigo, Spain, has been received at Washington:

"This year's yield of Spanish ergot will not exceed five or six tons, mostly of poor quality. That of 1917 was thirty tons, of which very little is left of superior quality. Prices have almost doubled in consequence, and good quality ergot at the end of September was worth 10 pesetas (par value of peseta is \$0.193) per kilo., or about \$1.18 per lb. at the prevailing rate of exchange."

ETHYL SALICYLATE is easier at 4s. per lb. on the spot.

FARINA.—Quiet, with spot sellers of No. 1 Japanese at from 6s. to 7s. per cwt. on the spot; sweet-potato flour is 6s. spot.

GLYCEROPHOSPHATES may be expected to be cheaper within a reasonable time following on better supplies of glycerin.

GUAIACOL CARBONATE.—Although there are heavy spot stocks in existence, a renewed export demand may cause a reduction in these; meanwhile 7s. is quoted on the spot.

HELIOTROPINE.—Crystals offer at 28s. per lb. on spot.

HEXAMINE still maintains its previous price, as imports are limited, and the demand keeps up fairly well.

HYDROQUINONE has eased down slightly, and can be bought at 14s. per lb.

LACTIC ACID.—Technical quality (50 per cent. volume) is cheaper at 115s. per ton on the spot in barrels.

LEMON OIL is cheaper, with new crop offering at from 6s. 4d. to 6s. 6d. per lb. to arrive; spot value is 6s. 3d.

LINSEED.—Millers are not in a position to accept further orders for light and dark crushed. Whole linseed is unobtainable.

LITHOPONE.—American white (30 per cent.) is easier, offering at 56s. per ton in casks on the spot.

MENTHOL is quiet, with sellers of Kobayashi-Suzuki at 20s. 6d. per lb. on the spot.

METHYL SALICYLATE.—Stocks being on the heavy side, some holders are desirous of reducing their commitments, and the price has dribbled down to 5s. to 5s. 6d. per lb. on the spot.

MILK-SUGAR remains unsettled, and those who hold stocks seem anxious to realise in anticipation of a heavy reduction before long; 2s. 3d. will readily buy. An arrival of 352 barrels has taken place from Galveston to Liverpool.

MINT OIL.—Japanese demobilised is quiet, with sellers of Kobayashi-Suzuki on the spot at 6s. per lb. The exports from Japan during September 1918 amounted to 15,758 kin, valued at 40,737 yen. During the nine months ended September 30 the exports were:

	1916	1917	1918
Kin	299,215	168,490	127,282
Yen	680,322	387,518	271,419

OPIUM is steady, with a small business in 10 per cent. Persian at 70s. to 72s. per lb. on the spot. The opium trade is the subject of a report by Consul General Horton of Salonica to the U.S. Department of Commerce. He says that the crude-opium trade of Greek Macedonia is second in importance only to that of tobacco. In a normal year the declared export returns to the United States show an average shipment of 160,000 lb., valued at \$870,000. During 1917 American firms were able to purchase only 18,907 lb., valued at \$318,053. As communications with the chief opium-producing centres have been interrupted, it is impossible to estimate the production in those countries during 1918. The only available information is that concerning the crop in the regions of Langaza, and the peninsula of Chalcidice, the only districts in Greece raising the poppy. These regions produced about 1,000 okes (2,820 lb.) of opium, representing about 20 cases.

PARALDEHYDE is lower at from 6s. 6d. to 7s. per lb., as to quantity.

PEPPER.—Quiet, with fair black Singapore offering at 1s. 3d., Tellicherry at 1s. 4d., and Aleppo at 1s. 3½d. White Muntok is lower, with spot sellers at 2s. 3d.

PEPPERMINT OIL still commands 27s. 6d. on the spot for the best American tin oil.

PEPSINS remain high in price, 1:2500 offering at 45s. per lb.

PETROLEUM.—From January 1 prices were reduced 4d. per gal., ordinary refined American being 1s. 4½d. and water white 1s. 5½d.

PHENACETIN can be bought at from 16s. to 17s. per lb., as to quantity.

PHENAZONE is still in very limited supply, and Swiss makers are unable to spare little, if any, for export; from 57s. 6d. to 60s. is quoted.

PHENOLPHTHALEIN is quoted at 32s. per lb. on the spot.

PLATINUM.—Since the recent release of this metal from control, trading has undoubtedly become easier, but the demand so far as can be gathered continues rather in excess of the supply, and the tendency has been upward for new platinum, the price of which now stands at 440s. per oz., while the premium exacted for scrap has disappeared, the price of the latter being 400s. per oz. It remains to be seen how the comparatively high value of palladium at 500s.

per oz. will eventually be affected, since its use as a substitute should be lessened.

POTASH IODIDE.—The exports from Japan during September amounted to 9,338 kin, valued at 62,959 yen. During the nine months ended September 30 the shipments were as follows:

	1916	1917	1918
Kin	130,977	112,370	136,285
Yen	960,598	680,044	838,502

Of crude iodine 865 kin, valued at 7,091 yen, were exported during September, and the exports for the nine months ended September 30 were:

	1916	1917	1918
Kin	906	25,995	51,038
Yen	5,432	177,229	320,686

POTASH PERMANGANATE.—We direct attention to a letter on page 51 from the British Cyanides Co., Ltd., following up our remarks in the last two weeks' issue of the C. & D.

QUININE ETHYL CARB. is easier at 15s. per oz.

SACCHARIN.—Although it is not possible to obtain import-licences, we understand on good authority that there is a possibility of these restrictions being relaxed in a few weeks. From New York, under date of December 18, it is stated that, owing to export licences being granted more liberally, increased buying interest is reported. This resulted in fairly good quantities being absorbed at low figures.

SALICYLATES.—Salicylic acid is slow of sale at from 3s. 6d. to 3s. 9d. per lb. on the spot. Sodium salicylate is steady at from 5s. 3d. to 5s. 6d.

SALOL is slightly easier at from 7s. 9d. to 8s. per lb. on the spot.

SARSAPARILLA.—Arrivals aggregating 179 bales have been taken place to Liverpool via Cristobel and Mobile.

SENEGA of fair quality is offering at 6s. 9d. per lb. net on the spot.

SELLAC is extremely quiet and prices nominal at from 295s. to 300s. for usual standard quality TN Orange and AC Garnet.

SODA ACETATE is about 10s. per ton lower, small crystals offering at 130s. per ton on the spot.

SODA BENZOATE is more easily obtainable at about 21s. per lb.

SODA BISULPHITE is easier, 60 to 62 per cent. powder in easks or kegs offering at 38s. 10s. per ton delivered U.K.

TARTARIC ACID is steady, with fair supplies at from 3s. 9d. to 3s. 10d. per lb. on spot.

TERPINEOL is cheaper at from 8s. to 8s. 6d. per lb. on the spot, as to seller.

THEOBROMINE.—Pure is offered at the lower rate of 55s. per lb. on the spot; soda salicylate is 40s.

TRAGACANTH is steady, but home trade is extremely quiet, and export trading is still hampered by the paucity of licences. Fair supplies are in existence on the spot, and the advice of further consignments on the way have been received.

WAX, VEGETABLE.—The exports from Japan during September amounted to 991,079 kin, valued at 378,054 yen. During the nine months ended September 30 they were as follows:

	1916	1917	1918
Kin	4,630,509	3,049,218	7,115,815
Yen	1,287,869	944,261	2,356,394

WITCH-HAZEL LEAVES.—An arrival of 120 bags and 6 bales has taken place to London and 53 bags to Liverpool.

ZINC PRODUCTS.—Zinc oxide is irregular at prices varying from 75s. to 90s. a ton, according to analysis, English being obtainable at about 82s. 10s., the supply being restricted. The demand for zinc dust is not so brisk, and terms for best Australian have been reduced down to 106s. for shipment or afloat parcels to U.K. English low-grade is still worth about 90s.

Platinum.

DEVELOPMENTS in regard to the search for platinum have excited a good deal of interest in various parts of the world during the course of the war. These developments will undoubtedly provide plenty of data for writers identified with the progress of the industry. The official price in this country is now 440s. per oz., to which it was raised when a pinch manifested itself as a result of the impoverished state of the market through the cutting-off of the Russian supply and the insistent demand from Allied Governments. This price is, of course, calculated to encourage the development of operations, while the world's resources are believed to have been reduced to small dimensions. Industrial users having been largely eliminated and forced to resort to substitutes, more particularly palladium (in connection with the manufacture of jewellery), supplies of platinum have apparently been adequate to cope

with the war demand. It is understood that about 30,000 oz. was obtained last year from Colombia, where at least a similar quantity may be secured for the current year. Owing to the limited quantities imported into the United States last year, the latter country absorbed practically the entire Colombian output. According to a recent report, the Colombian Government intended to commandeer the platinum stocks; but nothing of the kind has happened so far. This rumour was possibly spread by German agents, or it might, it is suggested, have been circulated as a hint that the Colombian Government are not without means of "persuasion" should the United States fail to see its side of various political questions in dispute. The United States annual output is placed at about 1,000 oz., chiefly secured as a by-product from California and Oregon, and there is not much prospect of any important increase in the domestic output, although endeavours are made to get at further sources of supply. It is generally assumed that Allied Governments have a use for all the metal they can get, but the extent of the supplies that have gone into war use will probably remain a secret. Platinum was first discovered in Russia about a century ago in connection with the exploitation of alluvial gold deposits in the Urals. The Government subsequently imposed a tax. Through forced labour, and in spite of increased taxes, the production kept increasing, reaching as much as 389 poods, or about 205,000 oz., in 1901. From that year onwards the yield fluctuated downward, more especially with the outbreak of the war. According to the last official returns for 1915, only 108,408 oz. was produced. It is probable that these figures are materially short of the actual output, as it has been ascertained that very considerable quantities have been marketed privately and in such a way as to evade the State tax. Therefore the official returns must be taken for what they are worth.

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the undermentioned ports :

<i>To London</i>	cs.; coriander (Fr.), 300 lbs.; cotton (Egy.), 4,070 tons; 22 cs. 210 brys. 30 cks. 16 pkgs.	ginger (W.C. Af.), 255 bgs.; linseed (E.I.), 17,360 bgs.; ginger (Coch.), 81 bgs.; pepper red (Sp.), 15 cs. (E.I.), 159 bgs. (Cochin), 239 bgs.; vanilla, 4 cs.
Chemical products, etc., unrated (Fr.),	Tallow, 927 cks.	Tallow, 927 cks.
22 cs. 210 brys. 30 cks. 16 pkgs.	Thorium nit. (N.Y.), 160 cs.; cerium nit., 5 cs.	Thorium nit. (La Plata), 1,179 cks.
Amyl salicyl. (Fr.), 11 cs.	Wax, paraffin, 1,888 brls. 69 bgs.	Wax, paraffin, 1,888 brls. 69 bgs.
Argol (Sp.), 193 bgs.	Wax, paraffin, 2,239 bgs. 189 brls.; scale, 397 brls.	Wine - lees (Sp.), 1 ck. 10 bgs.
Cream of tartar (Fr.), 338 cks.	Zinc oxide (N.Y.), 560 brls.	
Glycerin (Fr.), 290 drms.		
Oxalic acid (R'dam), 87 cks.	<i>To Hull.</i>	<i>To Hull.</i>
Potash chlor., 200 cks.	Cod-liver oil (Norw.), 40 brls.; egg-yolk 234 cks.; essential oils (Den.), 10 cs.; galls (Den.), 100 cs.; palm-kernels, 1,211 tons 16,646 bgs.; pimento, 250 bgs.	Cod-liver oil (Norw.), 40 brls.; egg-yolk 234 cks.; essential oils (Den.), 10 cs.; galls (Den.), 100 cs.; palm-kernels, 1,211 tons 16,646 bgs.; pimento, 250 bgs.
Soda hypo. (Fr.), 200 cks.		
Urea (Sweden), 120 cs.	<i>To Liverpool</i>	<i>To Liverpool</i>
Drugs, etc., 6 cs. (Fr.) Liquorice-paste (Sp.), 145 cs.	(Dec. 19 to 24). Acetone, wood (N.Y.), 163 drms.	(Dec. 19 to 24). Acetone, wood (N.Y.), 163 drms.
Liquorice-root (Sp.), 93 bgs.	Antim. ore (W.C.S. Amer.), 10,201 bgs.	Antim. ore (W.C.S. Amer.), 2,203 bgs.
Nux vomica (Calicut), 310 bgs.	Antim. oxide (W.C.S. Amer.), 29 bgs.	Antim. oxide (W.C.S. Amer.), 29 bgs.
Saffron, 2 cs.	Chemical products, etc.: Argol (Port.), 47 bgs. Calc., borate, 6,590 bgs.	Chemical products, etc.: Argol (Port.), 47 bgs. Calc., borate, 6,590 bgs.
Valerian (R'dam), 19 cks.	Hydroquinone (N.Y.), 20 cs.	Hydroquinone (N.Y.), 20 cs.
Dyes, dyeing, tanning materials, etc.: animal colours (Fr.), 24 cs. 74 cks.; cochineal (Sp.), 20 bgs.; logwood ext. (Phila.), 162 bxs.; madder, 5 cks.	Pyrogallic ac. (N.Y.), 4 cs.	Pyrogallic ac. (N.Y.), 4 cs.
Lithopone (N.Y.), 635 brls.	Soda bisulphite, 5 cs.	Soda bisulphite, 5 cs.
Oils, essential: 94 x 2 cs. (Messina), 7 drms. (Sp.); geranium (Fr.), 13 cs.	Soda nitrate, 45,203 bgs.	Soda nitrate, 45,203 bgs.
Oils, fixed: coconut (Cochin), 100 pps. 3,021 cs.; cotton-seed, 2,250 brls.; fish (Calicut, etc.), 1,979 cs. 175 cks.; olive (Sp.), 780 cs. 570 bgs.; turpentine (Fr.), 500 cks.	Dyeing, tanning materials, etc.: myrobalans, 2,268 bgs.	Dyeing, tanning materials, etc.: myrobalans, 2,268 bgs.
Perfume (Fr.), 86 cs.; rose water, 2 cks.	Glucose, (N.Y.), 1,847 brls.	Glucose, (N.Y.), 1,847 brls.
Spices, seeds, etc.: almonds (Sp.), 677 bgs. 573 bxs. (Port.), 503 bgs. 193	Honey (Chile), 127 brls.	Honey (Chile), 127 brls.
	Oils, fixed: cod-liver (Halifax), 600 cks. 230 brls.; olive (Sp.), 64 brls.; palm, 3,997 cks.	Oils, fixed: cod-liver (Halifax), 600 cks. 230 brls.; olive (Sp.), 64 brls.; palm, 3,997 cks.
	Petrolatum, 255 brls.	Petrolatum, 255 brls.
	Saccharin (N.Y.), 223 cs.	Saccharin (N.Y.), 223 cs.
	Seeds, spices, kernels, etc.: almonds (Sp.), 825 bgs. 160 cs. 4,100 bgs. (Port.), 205 cs. 329 bgs.; cashew nuts, 50 cs.; cloves (B'bay), 287 bds.; cotton seed, 160 tons; 34 cks.	Almonds (Sp.), 24 bgs. 320 bxs.; castor-seed (E.I.), 21,000 bgs.; cutch, 2,350 bgs.; linseed (E.I.), 33,544 bgs.; olive oil (Sp.), 200 cs.; rape-seed (E.I.), 37,298 bgs.; soda chlorate (Fr.), 34 cks.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Permanganate of Potash.

SIR.—In the C. & D., December 28, p. 49, we notice a paragraph referring to the offer of an English make of permanganate of potash, in which you state that "we understand that the quality is inferior in appearance, and is not equal to pre-war standard, being powdery and of poor test." We beg to call your attention to the fact that the circular which we issued stated that we should be able to guarantee prompt delivery of permanganate of potash after the Christmas holidays, and to inform you that, as a fact, no single sample of the material which we now propose to deliver under the terms of that circular has yet left our works, and none can therefore have reached you. We are expecting the first samples to be despatched this week from our works at Oldbury, and to be followed very shortly by the first deliveries in accordance with our announcement, and as soon as we have received one of these samples we shall have pleasure in sending it on to you for examination. We are taking every possible precaution to ensure that the chemical analysis of the permanganate which we shall supply to the leading drug-houses will meet every possible requirement, and as there can be no question in the minds of those who have received our circular as to who is the English maker referred to in the paragraph to which we take exception, we would ask you to be good enough to publish this letter.

Yours faithfully,

THE BRITISH CYANIDES CO., LTD.

KENNETH M. CHANCE, Managing Director.

49 Queen Victoria Street, London, E.C. 4.

The Pharmaceutical Society of Ireland.

SIR.—At the December meeting of the Council of the Pharmaceutical Society of Ireland, it was decided not to issue the Calendar for 1919. No reason was given to the members of the Society for the adoption of this unusual course. In the Pharmacy Act (Ireland), 1875, referring to the constitution and incorporation of the Pharmaceutical Society of Ireland, Section 27 provides that "the Registrar shall, in the month of January in every year, cause to be printed, published, and sold, correct copies of the Register of Pharmaceutical Chemists," etc. To depart from any of the provisions of the Pharmacy Act requires, I understand, the consent of the Privy Council, but it is not stated that such consent has been obtained. It may be that the cost of publication is responsible for the non-issue, but surely by removing—if even for one year only—one of the apparent advantages of membership, the Council does not encourage licentiates to become members. It is quite likely that the question of issue, or non-issue, was fully discussed *in camera*, but surely the bald statement in the Council report that "it was decided that there should be no issue of the Society's Calendar in 1919" is conclusive evidence in support of the election programme of one of the recently elected members of the Council, the gist of which was "the full report of the Society's Council's meetings to be published." The electorate will expect, and undoubtedly follow with interest, the redemption of this election programme. Many others will agree with me that this important omission was worthy of some explanation to those pharmaceutical chemists who take an interest in the doings of those who decide "whether 'tis to be or not to be" in Irish pharmacy. It is hoped that those in power may yet "cause to be printed" the P.S.I. Calendar for 1919, or at least to provide an explanation as to why a blank space in one's bookcase should exist.

Yours faithfully,

R. H. K. (21/12.)

A Peace Offer.

SIR.—Maxim inhaler outfits, as you are aware, must not be retailed under 21s., the cost price to the retail chemist being 16s. 6d. A prospective customer, having obtained my price, fails to understand why I should want 21s. when the agents, John Morgan Richards & Sons, Ltd., are offering this P.A.T.A. article direct to the customer for 16s., carriage paid. I asked this customer for further particulars, and in due course a communication was received, of which the following is a copy:

Peace Christmas, 1918.

It may interest you to know that, to commemorate Peace, we have been authorised to reduce to a few selected clients the price of Sir Hiram Maxim's Outfit from 21s. to 16s. FOR ONE MONTH.

If you are a sufferer from Catarrh or other trouble of the respiratory organs, we feel sure you would like to avail yourself of this very special offer. It enables you to obtain the whole set complete at a saving of 5s.

Sir Hiram Maxim's Outfit makes a handsome serviceable gift, and no present could be more appreciated at this time of the year.

Kindly fill up the enclosed order form, and return it to us with 16s., and the 21s. Outfit complete will be despatched at once, carriage paid, to any address you may give us in the United Kingdom.

I am not sure that the conditions of sale laid down by the Proprietary Articles Trade Association make allowance for sales in this way by agents direct to the public. Perhaps there is virtue in the limited period of the sale.

BARTHOLOMEW. (5/9.)

Hospitals and the Sale of Drugs.

SIR.—I notice in your issue of December 28 that information has reached you stating that certain hospitals are charging patients for medicine. I am rather inclined to think that your informant must be under a wrong impression. A small charge is made in nearly all large hospitals for suitable containers for medicine if not provided by the patient. Patients are requested to bring their own bottle or jar, and in that case no charge whatever is made, but failing to do this a small charge is made which is the actual cost of the bottle or jar to the hospital. The cost of the drugs, no matter how expensive, is never taken into consideration.

Yours faithfully,

SYDNEY DUNSTAN.

The Royal Victoria Infirmary, Newcastle-on-Tyne.

Attractive Windows.

SIR.—It seems to me, as a more or less humble member of the craft, that pharmacists nowadays—particularly those who affect the “up-to-date method”—are rather over-loud in window-display. A smart “appealing” window is all very well in its way, but some men seem to think that a display of the cheap jewellery type is the only kind of thing to produce results. As a matter of fact, I am strongly inclined to the opinion that a legitimate chemist’s business is not popularised by smart window methods. We all know the multiple store type of “pharmacy,” with shop-fronts of gold and crystal facias studded with diamonds, but is that really the kind of thing that attracts the people who want genuine drugs and accurate dispensing? A judicious sprinkling of commercial method is all to the good, but blatant “merchandising,” with the professional side relegated completely to the background, is suicidal. It is a “far cry” from Lord Crewe’s “frowsy chemist’s shop in a back street” to the garish perfumery-and-silver-bag emporiums of the present day, but there is a happy mean that the wise pharmacist will follow, and I am convinced that not only will he find it more dignified, but that he will find it pay. I should like to have the opinion of some of my brother craftsmen on this point.—Yours faithfully,

RETIRING. (89/16.)

Legal Queries.

Most difficulties in trade law are explained in the legal section of “The Chemist and Druggist Diary,” 1917, beginning on page 353.

Heroin (3/58).—The only restriction regarding the persons who may be supplied with heroin ordered in prescriptions is the Army Council Order (“Drugs for the Troops”), which forbids the supply of heroin (under the name diamorphine) to members of the Forces. The conditions are given in *The Chemist and Druggist Diary*, 1919, p. 78.

J. L. P. (5/31).—REGISTRATION OF A TRADE-MARK costs 30s. in fees, assuming that the mark is accepted, and that there is no opposition when the mark is advertised in the “Trade-marks Journal.” The process was described in detail in *The Chemist and Druggist Diary*, 1917, p. 220. It generally pays to employ a trade-mark agent, as there are many pitfalls for the inexperienced in this matter.

J. S. T. (185/25).—(1) The prohibition against opening new businesses (Regulation 8A of the Defence of the Realm Act) has not yet been withdrawn. It will be necessary to apply for a permit to the regional headquarters of the National Service Ministry. (2) A month’s notice is the custom for assistants in the drug-trade. This applies even where wages are paid weekly unless there is an express agreement to the contrary.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Nyanza (254/67).—LIME-AND-SULPHUR WASH.—This wash for spraying dormant fruit-trees is made by boiling 1 lb. sulphur and 1½ lb. fresh lime in a gallon of water, and when combined diluting to 40 gals. There are various strengths of the wash, but the above is a representative formula. Some recipes order salt in addition, and in others the lime is replaced by caustic soda. A treatise on agri-horticultural chemicals in *The Chemist and Druggist Diary*, 1910, gave a large selection of formulas adapted for agricultural trade.

S. G. M. (254/14).—DAMP HOUSE.—You should consult a local builder regarding the state of the house, which you complain is still damp four years after it was built. It may be that the damp-course was omitted or is defective.

G. F. S. (204/39).—PREVENTING STEAMING WINDOWS.—There is no doubt that a film of glycerin on the inside of shop-windows prevents steaming due to changes of temperature. It is not always convenient to apply the glycerin in a sufficiently thorough manner to make the remedy efficient.

E. R. (205/60).—GUNTER’S “Modern Confectioner” (Dean & Son, Ltd.) devotes a few pages to sugar-boiling, but the book does not profess to treat the subject exhaustively. We are not acquainted with any book dealing with the sugar-coating of tablets.

M. B. (1/66).—(1) METAL-POLISH PASTE:

Japan wax	...	...	...	100 parts
Raw oleic acid	...	...	...	550 parts
Melt together and mix with				
Infusorial earth	...	...	...	350 parts
Mirbane oil	...	...	...	3 parts

(2) BOOT-POLISH.—See C. & D., September 14, 1918, p. 52, November 16, p. 56, and November 30, p. 52.

H. W. & Co. (256/66).—BOOK ON WINE-MAKING.—Henderson’s “Wine-making” (10s., Smith, 165 Queen Victoria Street, London, E.C.).

Apotho (255/63).—CAPSICIN EQUIVALENT OF CAPSICUM.—A solution of 100 to 110 gr. of capsicin per pint of spirit would be fairly equivalent to tinct. capsici.

A. C. (258/61).—WEAVER’S PERIODATE CRYSTALS had considerable vogue many years ago as a remedy for influenza, but we do not think the article is now obtainable.

W. H. H. (30/12).—SUPPLY OF CHLORAL.—The dose of chloral hydrate (45 grs.) in the night draught is not excessive, considering that the French Codex mentions the maximum single dose as being 60 grains, and during twenty-four hours 180 grains. Your customer is probably suffering from a chronic disease which produces sleeplessness, and there seems no reason why you should refuse to dispense the mixture. The smaller doses of tinct. cannab. ind., tinct. hyoscy., and tinct. cimicifuga which accompany the chloral hydrate seem to indicate that the patient has a chronic ailment such as neuralgia.

Retrospect of Fifty Years Ago.

[Reprinted from “The Chemist and Druggist,” Jan. 15, 1869.]

The Chemists’ and Druggists’ Almanack and Text-book.

As this book is published at our office, we cannot sound a loud note of praise, lest we be accused of blowing our own trumpet. Still, in justice to its editor, Mr. C. W. Quin, we must say that it greatly surpasses our expectations, although we have had many opportunities of examining the editor’s excellent work. In his brief preface he notices the singular fact that an important trade like that of the chemist and druggist should have remained so long without a special Almanack, and states that in his attempt to supply the want he has been greatly aided by the advice and assistance of numerous friends. The result of Mr. Quin’s labour is a thoroughly practical annual, which ought to be on every pharmacist’s desk.



A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in Australia, New Zealand and South Africa.

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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, January 6.

Society of Chemical Industry, London Section, Burlington House, Piccadilly, W., at 7.30 p.m. Dr. P. E. Spielmann and Mr. H. Wood on "The Estimation of Cyanogen Compounds in Concentrated Ammonia Liquor"; Dr. F. B. Thole on "The Estimation of Benzene and Toluene in Petroleum"; and Mr. Arnold Philip on "The Estimation of Small Percentages of Water in Oils."

Tuesday, January 7.

Röntgen Society, Royal Society of Arts, John Street, Strand, London, W.C., at 8.15 p.m. Dr. H. S. Allen on "Electrical Changes Produced by Light."

North London Pharmacists' Association, Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C., at 9 p.m. Address by Mr. Councillor F. G. Hines.

Wednesday, January 8.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 11 A.M. Council-meeting.

Manchester and Salford Chemists' Assistants' Association, Clarion Café, 50A Market Street, Manchester, at 7.45 p.m. Discussion on "Reconstruction Problems affecting Pharmacy."

Thursday, January 9.

West Ham, etc., Association of Pharmacists, The Laurels, Plaistow Broadway, at 3 p.m. Whist drive. Tickets (1s. 6d. each) from Mr. A. Catto, 49 Cranbrook Road, Ilford, E.

Harrogate Pharmaceutical Association. Dr. A. F. Dimmock on "The Dawn of Medicine."

PROGRESSIVE PHARMACY CLUB.—A whist party open to members and friends will be held at the club on January 23. Tickets (2s. 6d.) may be had from Mr. Amos Jones, 78 Long Acre, London, W.C. 2.

Experiences of the Great War.

Contributions to this section are invited.

IV.—Pharmacy in Belgium.

M. DELACRE, the well-known Brussels pharmacist, writes: I hasten to comply with your wish by giving you, very briefly, an idea of our profession during the occupation of Belgium by the hordes of barbarians. In the beginning of 1914, and during the months which followed the entry of the Boches, pharmacy had to suffer, like all the other professions, from the most distressing quietness. Then, gradually, activity was resumed, and, thanks to the stocks which were held by the wholesale firms, it was possible to carry on without the enemy. A committee was formed at the beginning of 1915 to supply the necessitous sick gratuitously with medical attendance and medicines. This committee was supported by the Comité National, which granted the necessary subsidies. The sick person had to be provided with a special poverty-card, and not to be in receipt of public relief. In the provinces the indigent person could apply to the pharmacist of his own choice, but in Brussels to the Pharmacie Centrale created in the different districts. To give an idea of the importance of this *officine*, the number of prescriptions made up since its formation exceeds 500,000, and the money spent has reached a considerable amount. The committee in question has given medical and pharmaceutical attention to the British prisoners returned from Germany, a number of whom were wounded, and to the British prisoners at Hal, Mons, and other places.

I have said above that the existing stocks were sufficient up to the end of 1915, but from that moment the situation became grave, especially as the German requisitions and seizures were frequent, while the list of prohibitions increased every day. No more glycerin, no oils, no fats, etc.; this gave rise to frauds to the great profit of holders, and recourse had at last to be made to the Germans. Every demand addressed to the authorities had to be made by writing to the *Verwaltungschef* (Head of the Administration), indicating the name of the supplier. It was transmitted to Berlin, whence it was returned, approved or not, and often reduced. In possession of this document, a tax of 1 per cent. had to be paid, and then, at last, application could be made to the supplier who had been chosen, who despatched *when he was able to*. These formalities took at least three months, and often longer. From the beginning of 1916 the prices, which had remained fairly normal, rose considerably by the application of a special war-tax on products leaving Germany, and it is thus that in general, and taken on the whole, the increase can be estimated to be tenfold. It was then that the German soldiers, scenting lucrative business, began themselves to import certain products, which were bought by brokers whose profit consisted in the difference of the prices paid in Germany and those fixed for exportation. Gradually Germany, probably running short herself, restricted the export licences, and thus our situation became precarious. The prices which we had to pay for the available products became extravagant, as, for instance: castor oil, as well as glycerin, 60f. per kilo.; vaseline, 40f.; ipecacuanha, 600f.; peppermint oil, 900f. And now the products disappeared one after the other, so that on the eve of the armistice there were no prices quoted—what the holder chose to ask was paid.

From all this you can conclude that if the war had continued, as many feared at that time, it would not have been possible to practise pharmacy, and the sick would have had to suffer. In fact, all the druggists' sundries, rubber or ebonite articles, and the like, had disappeared from our *officines*, and there only remained the dispensing department. . . . The Chambre Syndicale des Produits Pharmaceutiques en Gros has published since the beginning of the war weekly tariffs which served as a basis to the tariff of the Nationale Pharmaceutique, which is published every three months, and is kept by all pharmacists.

The Germans, who had laid hold of the sugar production, allotted a small part to the pharmaceutical industry, through the intermediary of the Nationale Pharmaceutique. Every pharmacist received 5 kilos a month, in certain cases more, at the price last fixed of 5.90f. per kilo., which the Teutons, practical people, had requisitioned at 0.80f.!

Now, as regards the present situation. We have nothing more to get from Germany, and we are very glad, but what will become of us it is impossible to foretell if immediate measures are not taken to prevent a state of affairs which will seriously endanger the public health. Relief is urgently needed, and our friends of England and France must take it to heart to solve the question of the drug supply, which assumes as much importance at present as that of the food supply.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

War Regulations Altered.

Since our last issue the following Regulations or Orders under the Defence of the Realm Act have been altered or suspended. The references are to *The Chemist and Druggist Diary*, 1919:

P. 69. *Acetic Acid and Acetone*.—The Ministry of Munitions have issued an explanation that the suspension of the operation of Regulation 30A on acetic acid, grey acetate of lime, and acetone (*C. & D.*, December 28, p. 25) covers in addition products associated with acetone which have also been restricted under the Acetone Order, including methyl acetone, methyl-ethyl-ketone, and acetone oil. No formalities are now necessary in connection with the import of these materials from America.

Aluminium.—The restrictions on dealings in aluminium are suspended.

P. 72. *Hydrogen*.—The Hydrogen Order has been cancelled.

P. 73. *Packing Cases*.—The Order made under Regulations 2E and 2F as to use of packing cases has been revoked.

Surgical Needles.—The control over the manufacture of surgical needles ceased as from December 31, and permits for manufacture are, therefore, no longer necessary.

War Auxiliary Benevolent Fund.

The Pharmaceutical Society of Great Britain have sent us the second list of subscribers to this Fund, of which the following is a condensed form, two amounts subscribed by chemists through Associations being counted in the sum mentioned as having been received from the city, town, or county:

	£ s. d.		£ s. d.
Adcock, H. D.	5 0 0	Harker, Stagg &	105 0 0
Arrowsmith, G. M.	10 0 0	Morgan, Ltd.	105 0 0
Bonnett, F.	5 0 0	Herefordshire	108 3 3
Bradford	71 19 0	Herefordshire	84 4 0
British Drug Houses, Ltd., The	105 0 0	Hill, C. (Miss)	1 0 0
Burnley	105 17 0	Hines, F. J.	1 0 0
Canterbury (first list)	5 5 0	Howard, E.	1 0 0
Cope, J. M.	1 0 0	Manchester (first list)	656 11 0
Devon Co. (first list)	119 10 0	Mentholum Co.	5 5 0
Elt, E. E.	1 1 0	Notts Co.	10 0 0
Essex Co. (second list)	34 6 0	Preston (second list)	13 7 0
Fairchild Bros. & Foster 25 0 0		Priestley, L.	1 1 0
Frost, J. H.	10 0 0	Ranson, Wm., & Son, Ltd.	21 0 0
Gateshead	65 1 0	Samm, A. G.	1 1 0
Greatrex, E. J.	20 0 0	Smith, J. H., & Co., Ltd.	1 1 0
Hamilton, G. A.	5 0 0	Watford	26 0 0
Hatrick, W. R., & Co.	10 0 0		

Post-War Commerce.

The fourth report of the Special Committee of the London Chamber of Commerce on trade during and after the war, states that there is a feeling that in regard to the regulation of the importation of raw materials for essential industries and of manufactured goods, and the temporary restriction of the export of essential commodities received by the United Kingdom after the war, some measure of control may still be necessary; but, subject to this reservation, the declaration of Ministers that Government control of trade will be removed as soon as practicable after the war should be adhered to in the best interests of British trade. The virtual stoppage of the ordinary business of merchants, brokers, agents, and dealers is a matter of serious concern on all grounds, particularly as affecting the import of raw materials and the export of manufactured goods, upon which to a large extent, the national industries must continue to rely. It must not be overlooked, however (the report continues), that the temporary restriction of imports and exports, important as it is, only formed part of the present system of Government control, which also extended to the production of food, raw materials, and other commodities within the United Kingdom, and to the State regulation of their sale and distribution, without in many cases utilising the knowledge and experience of traders whose energies and resources have been devoted to the particular branch of business in which they have been associated. It should be possible, after making all allowances for the contingencies contemplated under the Bill introduced last year, for Government control to cease almost immediately on the signing of peace terms: in fact, numerous restrictions have been removed since the armistice. Among the recommendations which the Committee make is that steps should be taken "to prevent the dumping (and undervaluation) of enemy goods into British markets after the war." This recommendation was endorsed by Lord Balfour of Burleigh's

Committee, but, while agreeing in principle with the Canadian system, which appears to find most favour in this country, that Committee did not submit a detailed scheme. Such a scheme, however, was outlined in the Chamber Committee's second report (page 5, paragraph 8), and is intended to apply to manufactured goods in particular, the principle being that the home consumption values in the country of origin, substantiated by consular invoices or certificates of origin, shall be the basis upon which admission is granted. This involves effective machinery being set up by the Customs, whether a comprehensive tariff system be adopted or not, in order to prevent direct or indirect "dumping." Action has been definitely promised by the Government. Other conclusions arrived at are that the Government should state their intentions in regard to the future fiscal policy of the country, the rationing of raw materials, and priority of essential industries and urgent requirements.

Contracts.

The following tenders have been accepted by the bodies named:

Bridlington Town Council.—Mr. H. Harrison, chemist and druggist, drugs, etc., for the sanatorium.

Carlisle Guardians.—Mr. C. M. Dalziel, Ph.C., drugs, etc.

Isle of Wight Guardians.—A. Millidge & Son, chemists, drugs.

Whitby Council Schools.—Ward & Puckrin, chemists, drugs, etc.

Birmingham.

Business during the Christmas season has been very good. Gradually "things" are being more easily obtained in the medicine world; but there is much grumbling at the still high prices.

Mr. and Mrs. H. O. Lloyd have sent to each member of the local Association a seasonable greeting in the form of a New Year's card. This is quite a fresh departure in local pharmacy.

The success of Sir Richard Cooper and Mr. A. Bird at the poll may be taken as balancing pharmaceutically, if not politically, the failure of Mr. A. Brampton and Mr. Wilfrid Hill.

Mr. C. J. Woodward's biographical index, to which attention was called recently (*C. & D.*, December 14, p. 34), includes the names of Sir Thomas Barclay, Alderman F. C. Clayton, Professor Frankland, Mr. A. Southall, and the late Mr. Josiah Austin, with numbered references to local journals, etc.

Liverpool.

Stocktaking has occupied the Hanover Street houses this week.

Appreciation of *The Chemist and Druggist Diary* is again expressed by the trade.

Mr. Henry Peet, M.A., F.S.A., has been elected a member of the Bishop of Liverpool's Advisory Committee on War Memorials in Churches.

The abnormal humidity of the atmosphere continues, with the consequent demand for remedies and preventives applicable to throat and chest complaints.

The dullness which marked the opening of the Christmas trade in the pharmacies was followed by a rush on Christmas Eve and on the last two days of the week. Hence, at high pressure, receipts which reached an average estimate were realised.

The students of the Liverpool School of Pharmacy (Principal, Mr. H. Humphreys Jones, Ph.C., F.C.S.) held a social gathering at the King's Café, Church Street, on December 13. The company numbered upwards of seventy, and a most enjoyable evening was spent. Mr. J. G. Wallbridge attended on behalf of the Education Committee of the Liverpool Chemists' Association.

Manchester.

A reception was given by the Charles Midgley, Ltd., Girls' Club on December 21 in the Deansgate Hotel, Manchester, to celebrate the signing of the Armistice, and, to quote the invitation card, the return of "Ye olde Tyme Merrie Xmas." About fifty of the staff were present, including the directors, who took the occasion to announce during the course of the evening that the balance-sheet just completed, while not justifying the payment of a very substantial dividend, enabled them to grant to all employés the equivalent of an extra week's wages as bonus; and that to mark appreciation of the loyalty of the older members of the staff, they had decided to pay to every servant of the company who had been in their employ four years a special increase in wages of 10 per cent, apart from, and in addition to, any normal increase which might be due. A programme of music and song was provided by the club members, and was thoroughly enjoyed by the gathering.

Nottingham.

Almost as suddenly as it made its appearance the influenza epidemic has vanished.

Dr. Caven, who for twenty-two years has been chief assistant in the chemistry department at Nottingham University College, is leaving to take up the position of Principal at Darlington Technical College.

Chemists' assistants here are beginning to display an interest in the Shop Assistants' Union, from which the great majority have hitherto held aloof. A meeting of qualified men who now wish to join the trade-union movement has been arranged for.

Relieved by the lifting of the war shadow from their lives, people here are spending money more freely. Record turnover is the rule, and luxury articles find eager customers. Fancy lines have sold well during the festive season, and the demand for high-class perfumes has been extraordinary. Enhanced prices were cheerfully paid.

Sheffield.

Miss Preston (the eldest daughter of Mr. Job Preston), who has done her "bit" in France as well as her four brothers, has had the privilege of being included in the first contingent of the W.A.A.C. to be given a 250-mile motor ride through a battle area which has been in German occupation.

Miscellaneous.

APRICOT-PULP.—The Food Controller has revoked the Apricot Pulp and Bitter Oranges Order so far only as it relates to apricot-pulp. The result of this revocation is that while a licence is necessary to authorise dealings in bitter oranges which are abroad, no such licence is necessary in the case of apricot-pulp.

COUNTRY COMMERCIAL TRAVELLERS' LONDON ASSOCIATION.—The annual general meeting of this Association was held recently at Arderton's Hotel, Fleet Street, London, E.C., presided over by Mr. W. P. N. James (Chairman). The Committee's report showed that the balance at the bank was 69*l.*, in addition to 100*l.* invested in War Loan. The report of the Emergency and Service Fund stated that 146*l.* had been raised for the assistance of those members (and their dependents) requiring help who had joined the Forces. Mr. Henry Davis was unanimously re-elected President for 1919. It was agreed to admit as members lady commercial travellers who otherwise comply with the rules.

CHEMICAL TRADE AND DEMOBILISATION.—Last week we referred to the complaints that are being made in the heavy-chemical trade that this industry has been left out of the list of essential industries in connection with which "pivotal" men are to be released from the Forces in advance of the general demobilisation. Further light is now thrown on the existing conditions in the heavy-chemical industry by a statement made in "The Times" on the authority of Mr. Lloyd Roberts, Secretary of the Chemical Trade Industrial Council, Northwich, and of the Chemical Employers' Federation, who says that two companies which produce 75 per cent. of the alkali used in this country have stocks in hand sufficient to meet demands for only nine days. The suggestion is now made that several hundreds of the men already in dispersal camps in this country should be released and allowed to return to their former employers as the miners were permitted to do, without waiting for the submission of a formal application in respect of each man.

POISONINGS.—An inquest was held at Boston, on December 21, on the body of Miss Florence Evelyn Cooke, daughter of Mr. Charles F. Cooke, chemist and druggist, 17 Wide Bargate. Evidence was given by Mr. Cooke as to the depression of his daughter consequent upon the recent death of her mother; she eventually confessed to having purchased from another pharmacy in the town 2*s.* worth of morphine hydrochloride, and to having taken it at bedtime. Replying to questions, Mr. Cooke said he had been in the habit of sending his daughter to the chemists in question for drugs, but he did not do so on this occasion, and she had no authority from him to obtain morphine. An apprentice at the chemists' stated that on December 18 deceased came to the shop and purchased $\frac{1}{2}$ dr. of hydrochloride of morphine. She usually brought an order for drugs required by her father, but she did not do so on this occasion. She brought no written authority, and the transaction was not entered in the register of poisons. An assistant said that as Miss Cooke was in his opinion an authorised person, and the trade was wholesale, he did not think a written order or registering of the sale was necessary. In reply to a question, he said he recollects a notice being served on his firm in November, 1917, under the Defence of the Realm Regulations, that entry should be made of all sales of cocaine or opium, but he did not regard hydrochloride of morphine as opium, and contended that the

regulation applied to retail, and not to wholesale sales. The jury returned a verdict of "Suicide in a fit of despondency."—At a Norwich inquest, on December 31, the death of Ethel M. Hardiment, a nurse, was certified as due to narcotic poisoning, a medical witness stating that chloro-dyne was found in the stomach.—At Haggerston, London, Annie Roberts committed suicide with salt of lemon.

IN THE COURTS.—At Bow Street Police Court, London, on December 26 and 28, Paola Vansittart Stewart (52), described as a photographer's agent, 44 James Street, Plymouth, was charged under the Defence of the Realm Regulations with unlawfully procuring for herself, she being an unauthorised person, 1,350 grains of cocaine on twenty-four various dates ranging from February 16 to November 25, 1918, by means of forged medical prescriptions, at the Civil Servic Supply Association's Stores, Bedford Street, W.C.; also with attempting by the same means and at the same place to obtain 60 grains of cocaine on December 19, 1918. It was stated for the prosecution that the prescriptions, which the accused professed to need for bathing her eyes, purported to be written by Dr. James Maughan. Evidence showed that information was given to the authorities by Mr. Walter Edwards (Civil Service Supply Association, Ltd.). A remand was ordered on each occasion, bail being refused. —Two further hearings took place at the Thames Police Court, London, during December of the case in which three persons are charged, on remand, with being concerned in "doping" a Russian subject with a view of rendering him unfit for the Army (*C. & D.*, 1918, p. 967). Expert evidence was given at the second of these hearings concerning Dr. M. W. Cohen, one of the defendants, by Mr. G. F. Gurkin, who had examined entries in Dr. Cohen's day-book with reference to visits by the Russian, and said there was the gravest suspicion that these entries were not made contemporaneously with other marks on the same page. The case was again adjourned.—At Liverpool Police Court, on December 27, Virginia Dahmann, charged on remand with stealing cocaine (*C. & D.*, 1918, p. 1036), was sentenced to two months' imprisonment in the second division.—At Westminster Police Court, London, on December 28, Annie Barton, who was fined 20*l.*, with 10*l.* 10*s.* costs, for shoplifting, pleaded in extenuation that she had taken aspirin and it had an extraordinary effect upon her.—At Marlborough Police Court, London, on December 27, A. Chang, charged on remand with being in possession of opium-smoking utensils (*C. & D.*, 1918, p. 1036), successfully pleaded that he had given up opium-smoking seven years ago, and had since cured other people of the habit at a fee amounting in some cases to 100*l.*—At the same Court, on December 31, the defence was opened in the Venereal Disease Act case in which William Henry Gordon is the defendant (*C. & D.*, 1918, p. 1011). The case was again adjourned.—At Marylebone Police Court, London, on December 30, F. N. Squire, Yiewsley, was fined 15*l.* for causing a horse affected with parasitic mange to be driven on the highway.—At Mansion House Police Court, London, on December 27, a lad, who was eventually bound over for stealing various articles, admitted that some bottles of scent found at his home came from a chemist's shop in Northumberland Avenue, where a show-case was forced open, and some perfumes from a show-case at a chemist's near Piccadilly.—At Preston, on December 31, two Chinamen were remanded on a charge of being in possession of opium—to the extent, in one case, of 10 oz. 184 grains—concealed in their clothing. On January 1 they were fined respectively 20*l.* and 10*l.*

Scottish News.**Brevities.**

The old Tay glassworks at Perth belonging to E. Tomey & Sons have been acquired by John Moncrieff, Ltd., Perth.

With the return of Britons from so many foreign countries there has inevitably been a circulation of foreign coin. Chemists should watch for such.

At 8.10 the other evening a persistent rapping procured the admission of a lady into a locked pharmacy. The chemist alleged that he was doubtful if the prescription could be dispensed that night, but the lady pleaded for the powders, at least. "You are very kind, I'm sure," she said when he handed her the powders. "I wonder if it would be too much if I asked you to dispense the other things as well." And at 8.30 P.M. the wrathful pharmacist (who had never seen the woman before) had to veto an impending discussion regarding the possible ailments the doctor had in mind when he penned the script.

Irish News.

Brevities.

Cork's death-rate from consumption is the highest in the kingdom. Of the total deaths consumption claims one-seventh.

Business in Cork during the Christmas period was a record. One chemist's turnover was twice that of the preceding year.

Messrs. French & Whelan, Fielding, and Burke, Ph.C.s, Cork, had the three most attractive displays in window-dressing during Christmas week.

Mr. William Martin, R.D., 181 Antrim Road, Belfast, has disposed of his branch at 163 Old Lodge Road, Belfast, to Mr. Henry Johnstone, who for eighteen years has acted as manager of the branch.

Miss Jane Townby Wells, B.A., second daughter of Mr. William F. Wells, Ph.C., ex-President of the Pharmaceutical Society of Ireland, has had conferred upon her the degree of Master of Arts, Dublin University.

Lieutenant F. G. Doig, Royal Irish Rifles, who was mentioned in despatches by Sir Douglas Haig in the "London Gazette" on December 28, is a son of Mr. William Doig, of W. Doig & Co., wholesale druggists, 39 Mill Street, Belfast. He has also been awarded the French Croix de Guerre (Bronze Star) in recognition of his services in the Flanders fighting.

At the monthly meeting of the Committee of Management of the Sligo County Infirmary, Mr. J. P. Toher was declared contractor for the supply of medicines at 34 per cent. discount off list prices, and Mr. A. W. Young's tender was accepted for appliances at 6 per cent. off. The Hon. Mrs. Wynne said all drugs and appliances which were required were not included in the list, and she was informed that when not included a very large sum was charged by the contractors for such articles. It was agreed that in such cases the medical officer should procure the articles from the cheapest source.

Demobilisation Arrangements.

As previously announced in the *C. & D.*, Mr. D. M. Watson, Ph.C., ex-President of the Pharmaceutical Society of Ireland, represents Ireland on the Pharmacists' Demobilisation Committee. Applications for early release of Irish pharmacists serving in the Forces should be made to Mr. Watson, c/o the Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin. To prevent disappointment it should be stated that the very limited number of "pivotal" men who are to be released in advance of the general demobilisation have already been allotted. A point which must also be borne in mind is that general demobilisation has not yet commenced; all that has been done is to arrange to collect information which will enable the men who have situations to go to to be released in order of urgency. It is stated also that men in combatant units will be more readily released than those who are acting as pharmacists in the Royal Army Medical Corps. The Pharmacists' Demobilisation Committee which will consider "slip" men will have power to put forward to the Claims Office or Appointments Department urgent cases for early release.

The late Sir William Baxter.

The funeral, which took place on December 21 at Coleraine Cemetery, was largely attended. A memorial service was held in Terrace Row Presbyterian Church, Coleraine, on December 22, at which Captain Rev. J. G. Paton, C.F., officiated.

At Coleraine Petty Sessions on December 27, Mr. G. H. Moore Brown, who presided, spoke of the great loss which the Court had sustained by the death of Sir William J. Baxter, D.L., and proposed a resolution expressing sympathy with Lady Baxter and family in their bereavement. Mr. T. G. Houston, M.A., seconded. Mr. Robert O'Neill, for the legal profession; Head-Constable Oulken, for the constabulary; and Mr. E. J. Hay, C.P.S., associated themselves with the resolution, which was passed in silence.

Shop-closing Order.

At Londonderry Police Court on December 23, the adjourned prosecution came up for hearing, under the Shop-closing Order made under the Defence of the Realm Act, against local chemists, in which nine local chemists were summoned for a breach of the Order. The defendants were Austin & Co., Prior & Co., W. A. Frizell, H. Sweeney, W. G. Mitchell, James Glendinning, and H. E. Young. Inspector Ryan, who prosecuted, said he was prepared to consent to the cases being dismissed if the defendants gave an undertaking to comply with the law in future. Mr. S. C. Ross, for the defence, pointed out that the defendants were summoned for keeping open after 5.30, and it was

from shortly after that time the chemists were busiest. This was due to the fact that working men, who had been working up to six o'clock, consulted their doctor on the way home, and afterwards went to the chemist's to get the prescriptions made up. A chemist might have five or six prescriptions to make up about six o'clock, and he could not work in the dark. Mr. Ryan explained that the shops must be closed at 5.30, and the lights extinguished half an hour afterwards. The chemists could open any time after that for the purpose of supplying medicine, provided they only opened for the time necessary to serve a customer. It was not necessary that ten lights should be going to serve a customer. Mr. Ross mentioned that the Corporation had made an order fixing the hours for closing of chemists' at nine o'clock each evening, with the exception of Saturday, when the hour was fixed at ten o'clock. The health of the community depended upon the chemists being allowed to keep open. Mr. Ryan said all these facts had been placed before the Lord-Lieutenant, and he did not see his way to alter the Order. The Magistrate said he was sure the police would not interfere unnecessarily with what was an urgent business. Mr. Ross: The Order is unworkable. The Magistrate: It is not unworkable, but it requires a certain amount of elasticity. If the matter is left in the hands of Mr. Ryan he will do all he can. Mr. Robinson said he was prepared to give the undertaking asked for by the police, and was certain Mr. Ryan had no desire to harass the trade. The defendants all agreed to give the undertaking, and the cases were dismissed.

French News.

(From the "C. & D." Paris Correspondent.)

PROFESSOR GUSTAVE BOUCHARDOT, who recently died in Paris, had for forty years taught hydrology and mineralogy at the Paris School of Pharmacy. Born in Paris in 1842 (his father was head pharmacist of one of the great city hospitals), he commenced his classes in 1871. In 1881 the chair of hydrology and mineralogy was created, and Gustave Bouchardot was nominated to the new dignity. He retired in 1912. In chemical circles his name is best known in connection with synthetic rubber (of which some considered him the real inventor) and camphor. Both the Bouchardots—Appolinaire, the father, and Gustave, the son—were members of the Academy of Medicine.

THE RECOVERY OF ALSACE-LORRAINE, after forty-seven years of German occupation, has created a situation which in many of its details requires very tactful and delicate treatment. That the French are resolved that the population of the provinces shall not suffer by the change of régime is evident from the liberal manner in which the crucial question of the value of the German mark has been decided. The pharmacy question, if less important, is equally delicate. To apply the French law of unrestricted opening of establishments to two provinces where the German limitation system has so long prevailed presents manifest inconveniences. The matter was touched upon in some French pharmacy journals during the war, but has yet to be thoroughly studied and decided.

THE DEATH OF JEAN HIPPOLYTE MARTY removes from our midst one of the best-known of the older generation of military pharmacists. Many remember him as President of the Paris Society of Pharmacy (1884), member of the International Pharmacy Congress (1900), head of the Central Pharmacy of the French Army (1887-90), and Inspector (1890-99), the highest rank open to a French military pharmacist. Since 1899 he had lived in honoured retirement, but was a frequent and much-respected figure at pharmaceutical gatherings. Born in 1835, he commenced his career as assistant-pharmacist during the Crimean campaign, afterwards serving at the Invalides, in Algeria, and at Val-de-Grâce (the great Parisian military hospital). In 1865 he was nominated Assistant Professor of Military Pharmacy at the "Imperial School of Application" attached to this hospital. During the Franco-German war of 1870-71 he was attached to the G.H.Q. of the Army of the Rhine as assistant-inspector, and subsequently acted as head pharmacist of the ambulance of the 18th Army Corps and head of the Reserve Stores of Médicaments. After various other services he became Professor of Applied Chemistry at Val-de-Grâce in 1876, and finished his career at the Central Pharmacy and as inspector, as already mentioned. He took an active part in editing the Military Hospital Pharmaceutical Formulary (1884 and 1890 issues), and sat on the Codex Revision Committees (1895 and 1908), appreciated by his colleagues as a steady and methodical worker. M. Marty was the senior-member of the Pharmaceutical Section of the Academy of Medicine, having been elected in 1887.

Colonial and Foreign News.

MEDICINAL SUPPLIES FOR AUSTRIA.—The "Zeit" reports, respecting the prevailing shortage of medicines in Vienna, that Germany has promised to supply Austria as ample as possible from her own stocks through the new Medicament Central. Complete substitute preparations will be offered for medicines hitherto made from foreign drugs or exotic plants which can no longer be imported.

CONTROLLED NARCOTICS IN SPAIN.—The "Gaceta de Madrid" recently contained a royal decree approving certain regulations for the control of trade in opium and its derivatives and alkaloids, preparations containing such substances in any form, and all materials containing alkaloids, glucosides, or other ingredients having a narcotic or anaesthetic action. The provisions include re-exportation from Spain, and the retail sale of medicines, pills, etc., containing opium and narcotic substances. The import and sale of opium prepared for smoking and of all opium products destined for such use is absolutely prohibited.

APPLIED BOTANY.—A "lupin" banquet has been given in Hamburg at a botanists' gathering. Professor Dr. Thoms (one of the Huns recently removed from the corresponding membership of the Pharmaceutical Society of Great Britain) described the multifarious uses to which lupin might be put. At a table covered with a tablecloth of lupin fibre lupin soup was served; after the soup came lupin beefsteak roasted in lupin oil and seasoned with lupin extract, then bread containing 20 per cent. of lupin, lupin margarine and cheese of lupin albumen, and finally lupin liqueur and lupin coffee. Lupin soap served for washing the hands, while lupin-fibre paper and envelopes with lupin adhesive were available for writing.

DEVELOPMENT OF CHEMICAL-INDUSTRY IN CHINA.—According to the "Pharm. Weekblad," Japanese firms have recently started a number of chemical-factories in Kwantung, based on raw materials derived from Manchuria. The products made include sulphuric acid, barium compounds, caustic soda, creosote, oils and fats, soap, stearin, and glycerin. Trials with other Manchurian raw materials indicate that other products may also be made, such as lanolin from wool, iodine from seaweed, and bandages, etc., from cotton, calomel from cinnabar, and caffeine from tea-waste. It is also suggested that coal-tar products might be made, as well as alcohol and ammonia. A number of Chinese and foreign chemists, pharmacists, and medical men have interested themselves in these projects, and have promised their co-operation in the attempt to establish a Chinese chemical-industry.

PHARMACISTS' DIFFICULTIES IN AUSTRIA.—It is stated in the "Zeit" that the shortage of medicines, especially of febrifuges, is extremely serious. These are imported almost exclusively from Germany, and stocks are now practically exhausted. There is a particular shortage of salicylic preparations, antipyrin, phenacetin, etc. In addition to febrifuges other medicines are approaching exhaustion—e.g., bismuth, diuretin, etc. Hoarding and illicit trade with the Ukraine are the causes of this disastrous state of things. The chemists are not only without medicines, but also without bottles, paper capsules, and sugar. Among other articles at present unobtainable are bath sponges and ivory combs. Sponge-fishing is impossible on account of the danger of mines; and, when the genuine article does happen to appear on the market, 100 kr. and more is asked for one of medium size. The production of eau de Cologne is prohibited in Austria, and, although there is plenty in Germany, none is imported.

RED AND YELLOW PHOSPHORUS IN JAPAN.—Before the war all the phosphorus used in Japan was of foreign origin, but recently at least three Japanese chemical concerns—Japanese Chemical Industry, Fuji Chemical Co., and the Toyo Electrolytic Chemical Co.—have successfully produced phosphorus. The average output is about 100 lb. per month, and the peace-time demand is estimated at 3,000 tons per annum. With the increase in output in Japan prices fell from 600 yen per case to 120 to 130 yen per case in November 1917. As the latter price was not profitable, the makers petitioned for leave to export. This was granted by the Department of Agriculture and Trade, and considerable exports are stated to have been made to Russia and China. It is difficult to estimate the chances of this new industry now that the war is over, but in view of the fact that ample supplies of phosphates are available in the South Sea Islands, and that labour in Japan is cheap and efficient, it seems likely that the market for foreign phosphorus in Japan will in future be considerably restricted. Japanese matches already hold an almost complete monopoly in the East, and with cheap home supplies of phosphorus their position will become even more secure.

STRYCHNINE IN SANTONIN.—An inquest was held recently in Capetown on the body of a child named Arnold, who died after taking a worm-powder. Medical evidence showed that santonin with grey powder had been prescribed, and the Government analyst, who was called next, stated that he found in each of the powders submitted to him nearly $\frac{1}{2}$ grain of strychnine. He had also analysed the contents of the chemist's stock bottle labelled "Santonin," and found strychnine present to the extent of 30 per cent. Mr. Sarleh Dolle, chemist and druggist, from whom the powders were purchased, then gave evidence at his own request. He said that shortly after qualifying in London in 1914 he opened in business in Capetown, and one item in his opening order was $\frac{1}{2}$ oz. of santonin. This was the only santonin ordered by him up to the time of the present incident, and he recollects dispensing some of it about six months ago. Both santonin and strychnine were kept in his poison-cupboard. His theory was that when he bought the santonin there must have been strychnine in it; such cases were on record. The fact that doses had previously been dispensed from it without ill-effects might be accounted for by the strychnine being at the bottom of the bottle. He had never had complaints concerning other quantities of santonin. An open verdict was returned.

PAPER BANDAGES IN GERMANY.—Dr. Gocht, Director of the University Institute for Orthopaedy, Berlin, states that paper bandages should furnish a cheap material for fixing padding under plaster coverings, and they have always proved suitable for this purpose, even if certain difficulties hindered their extensive use. Professor Gocht had the paper bandages made thicker and stronger, but as they clung less closely they were used in a narrower breadth. They were, however, untearable, whereas the present paper bandage is thinner and more crêped, and therefore usable in all widths, but more easily torn, so that it is less easy to bind the pad foundation firmly. Paper bandages have proved most efficient in fixing the padding of splint and plaster dressings of every kind, under and over splint bandages, and for all wound-dressings for which a muslin or an elastic bandage is ultimately to be used. They have proved extremely useful in the making of plaster casts of the limbs and body. They are less suitable as outer bandages for finger, hand, foot, or head dressings, and for "transport bandages," and they are quite unsuitable for compress dressings. Recently plaster bandages also have been made with a paper basis. In most cases the well-known machine-made paper fabric made of thin paper threads is used. These paper fabric bandages are very suitable for receiving the plaster, but they do not cling well, and are very brittle after drying.

INDIAN DRUG RESEARCH.—At a meeting of the Bombay Legislative Council held in July last, Khan Bahadur Ebrahim Haroon Jaffer moved a resolution recommending that steps be taken to start a pharmacological laboratory or research institute in medicine, at a suitable centre in the Presidency, for scientific experiment with and research into indigenous drugs. Notice for moving a similar resolution was also received from Mr. S. B. Upasani and Mr. B. S. Kamat. In accepting the above resolution on behalf of Government, Sir James Du Boulay observed that the Governor in Council considered the idea deserving of every encouragement, but was of opinion that the first step to be taken was to appoint a Committee to work out the details of a scheme and its cost. He asked Council to settle the names of the Committee and the terms of reference in consultation with the Surgeon-General and the three honourable members who had given notice of resolutions on the subject. In pursuance of the above undertaking, the Governor in Council has appointed a Committee consisting of Lieut.-Colonel A. Street, M.B. (Cantab.), F.R.C.S., I.M.S. (Chairman); Lieut.-Colonel W. Glen Liston, C.I.E., M.B., M.D., D.P.H., I.M.S.; R. Row, M.D., D.Sc. (Lond.); N. F. Surveyor, M.D. (Bom.), M.R.C.P. (Lond.), D.P.H. (Cantab.); Professor T. K. Gajjar; Hakim Syed Abu Yusuf Asfahani, Bombay; Sir Bhulchandra Krishna, Kt., L.M.; Mr. R. L. Mackenzie Wallis, Research Chemist to the Director of Industries. The Committee is to prepare a scheme for a pharmacological laboratory and research institute for the investigation of drugs, and particularly the indigenous drugs of India. The Committee should obtain information as to what is being done in this direction in other parts of India, so that developments in Bombay may be co-ordinated so far as is possible with similar efforts elsewhere. It should, in particular, make recommendations as to the place where a laboratory and institute can most suitably be established, and as to the nature of the buildings, equipment, and staff required. It should also submit an approximate estimate of the cost, including maintenance charges.

Dutch Chemical Products Exhibition.

(From Our Netherlands Correspondent.)

THE SECOND "JAARBEURS," held in Utrecht, has proved to be a great success. Several chemical enterprises were not represented at this Fair; still, the exhibits showed clearly how chemical industry in the Netherlands has developed of late. Only those exhibits that are of pharmaceutical interest are mentioned here. *Mineral Acids.*—The sulphuric-acid industry has not yet suffered from the scarcity of raw material. The difficulties in getting platinum for the catalytic material have been surmounted; platinum has been purchased, though at extraordinarily high prices. Hydrochloric acid, which was not made for commercial purposes in Holland before the outbreak of war, is now furnished in any quantity. Nitric acid is made by the same manufacturers as sulphuric acid. The nitroglycerin factory in Ouder-Amstel has made nitric acid since long before the outbreak of war. *Alkalies.*—Caustic and ordinary soda and potash are not made in quantities of any consequence in Holland, but the lying fallow of the Limburg lime-grounds has opened a source of lime that can produce any quantity required. This source of lime also keeps the ammonia-industry going. All the Dutch ammonium-salts works together produce, however, only a tenth part of the quantity of nitrogen compounds required for agricultural purposes in Holland. Most of the alkali-industry is dependent on importation for necessary materials; this is the case, for example, with sal soda, chlorine, and chlorinated lime. The chlorinated-lime industry in Holland must be regarded as a war industry, and not as an industry of a lasting nature. The potassium-chlorate industry has a better chance, though it also has arisen since the outbreak of war. The manufacture of superphosphates is one of the largest Dutch industries, but suffers from want of raw material at present. A series of by-products, such as phosphoric acid and sodium phosphate, deserves mention in this connection. *Silver and Iodine.*—A more purely pharmaceutical chemical shown is silver nitrate, the manufacture of which has come to a standstill in consequence of the extremely high prices of silver. The silver firm Brocades & Stheeman also makes iodine-preparations from the crude copper iodide it receives from the Dutch East Indies. Mercuric iodide is one of these products. *Alcohols, etc.*—The organic-chemicals industry was well represented at the Jaarbeurs. One of the principal and most interesting stands had a display of various alcohols and of anaesthetic ether, the latter in 50-gram bottles of "actinic" glass. In this section were also to be seen formic, acetic, and oxalic acids, the first and last of which, it is understood, can now be made in any quantity. Pure lactic acid, another exhibit, is said to be in increasing demand as a substitute for citric acid in beverages. *Coal-tar Products.*—One of the most interesting features of the Jaarbeurs was the exhibits of the coal-tar industry. Since the outbreak of war this industry has taken in hand the manufacture of such diverse products as toluol, pure carbolic acid, acetanilide, beta-naphthol, methyl salicylate, benzoic acid, and saccharin. All these, which were not made in Holland in pre-war days, are now regularly produced, notwithstanding all the obstacles met with. *Synthetic Perfumes.*—The Naarden works made several essential oils, perfumes, etc., before 1914. At present this and other makers suffer from the irregular importation of raw material. They expect, however, to be able to make all perfumes wanted, answering all claims of purity, as soon as the importation becomes normal again. At present these factories bring into commerce p-ionone, citronellal, terpenylacetate, aliphatic aldehydes and alcohols, different ethers of geraniol, citronellol, etc. A long series of synthetic perfumes is also exhibited by Polak's works, including heliotropin, anethol, artificial amber, etc. Thick cedar oil for microscopic purposes has been made for the first time in Holland by this firm. *Fats and Fixed Oils.*—A very important branch of industry that had many representatives at the Jaarbeurs is that of fixed oils and fats. The fat-hardening process is established in the N. V. Anton Jurgens' Margarinefabrieken, a fact of high importance with regard to the supply of edible oils. Other factories are ready to begin as soon as raw material is obtainable. Stearic acid, oleic acid, and stearin-pitch are made at the candle-factories in Gouda and in Sciedam. The glycerin obtained in these and in several soap-factories is purified by distillation in the chemical-works at Naarden and elsewhere. The dye-works are suffering from lack of linseed oil, and are obliged to work with casein and waterglass instead. *Gelatin and Casein.*—A Delft firm showed powdered gelatin in four qualities, the best of which is an

excellent substitute for the leaf-gelatin that was generally used till now for pharmaceutical preparations. The Delft factory also makes gelatin for photographic purposes and an absolutely tasteless gelatin for household purposes. Casein, which was not made in Holland before the war, is now made out of milk by means of lactic-acid bacteria; galalith (artificial horn) is derived from casein. Casein is made use of in a great many trades, so that the newly founded Dutch casein industry is likely to flourish. To sum up, the Dutch pharmaceutical industry has particularly felt the influence of the war, in that it required a stimulus in order to take in hand the manufacture of many articles which would never have thought of in the old conditions. Endeavours to do without materials of foreign origin have for the greater part met with success.

Dutch E.I. Essential Oils.

THE Netherlands East Indies has for many years past paid considerable attention to the cultivation and distillation of certain essential oils, among them being cajuput, citronella, cananga, patchouli, and lemongrass, interesting particulars about which are given in the "Handelsberichten," a journal which is publishing a series of articles on industrial undertakings in the Dutch East and West Indies. This is being done under the direction of the Dutch Colonial Office, who evidently wish to stimulate interest and capital in their Colonies. In fact, we should not be surprised if Germany after the war is not looking forward to the Dutch East Indies to supply her with many raw materials formerly sent from India and China. Dealing first with cajuput oil, distilled from the leaves of *Melaleuca Leucadendron*, which is found in very large quantities in the Moluccas, it appears there are about 500 distilleries, mostly belonging to Chinese merchants, operating on the island of Boeroe. These distilleries are small wooden buildings, and the apparatus used is quite primitive. The distilling is done by groups of from two to six men, who pay a rent of from 10 to 15 florins per month for the still and are obliged to sell the oil to the owner of the still. In normal circumstances the sale price was about 80 cents per bottle of $1\frac{1}{2}$ litre. For exportation the oil is packed in cases, each containing twelve or twenty-five bottles of 540 grams. Adulteration with petroleum or benzine, etc., is frequently practised by the natives, as well as by the Chinese merchants. The green colour of the oil is due to contamination with copper and chlorophyll compounds, but as a clear green colour is liked, the colour is frequently intensified by placing a piece of copper in the oil. The principal seaport for exportation is Macassar. On the island of Boeroe the principal port of shipment until 1914 was Kajeli, but now it is Namlea. In 1914, 63,000 kilos. of the oil was sent to Java for local use. Large quantities are sent to Singapore in transit to British India. The United States appears to buy large quantities for use in proprietary medicines. A part of the production also arrives in Europe via Amsterdam and London. The official statistics give the following figures in kilos.:

Destination	1913	1914	1915
Holland ...	6,365	9,758	12,217
Germany ...	584	1,128	5,773
United States ...	526	11,874	15,931
Singapore ...	112,005	40,658	42,090
Siam ...	1,216	—	—
Hong-Kong ...	2,037	1,978	2,375
Portuguese Timor	1,423	—	564
Elsewhere ...	142	73	913
Total ...	124,228	65,469	79,863

According to these figures Singapore appears to have lost much of its significance as a transit port, and the direct exportation to U.S.A. has largely increased. The 1916 and 1917 export figures are not yet available. Oil of citronella is distilled from serewangi grass, grown by the natives, and delivered by them to the distillers, who pay from 25 to 30 cents per picul. The cultivation of the grass is very easy, and in good soil it grows abundantly. Under favourable conditions one bouw (=0.71 hectare) yields from 5,000 to 6,000 kilos. of grass, from every 1,000 kilos. of which about 7 kilos. of oil is obtained. Most of the distilleries belong to Chinese merchants. The price of citronella oil has advanced considerably since 1912, and, simultaneously, cultivation of the grass has much increased. Many natives now distil the oil themselves in preference to selling the raw material to the Chinese. The greater part of the oil

is used in the preparation of perfumes and soap, and lately for the preparation of synthetic otto of rose. Java has exported the following quantities (kilos.) of citronella oil during recent years:

Destination	1913	1914	1915	1916	1917
Holland...	20,422	55,666	55,713	14,278	5,565
Great Britain ...	—	1,500	60,394	151,719	213,631
France ...	21,137	31,446	38,049	40,653	15,654
United States ...	6,637	25,787	63,560	196,065	204,807
Japan ...	—	5,091	12,377	19,416	50,437
Germany ...	23,824	17,164	—	—	—
Australasia ...	—	—	—	—	5,263
Belgium ...	2,710	—	—	—	—
Singapore ...	500	—	—	4,848	13,576
Elsewhere ...	—	—	3,233	1,764	6,830
Total ...	75,230	136,654	233,326	428,743	515,763

Lemongrass oil is another essential oil distilled in the Dutch East Indies from a cultivated grass in a similar way. It yields about 0.2 per cent. of oil. As European firms prefer the lemongrass oil from Cochin and Réunion, Java has lost its significance as a producer. Cananga oil is exported in small quantities from the Dutch East Indies, but it is not separately mentioned in the statistics of export. It is distilled from the flowers of a tree indigenous to the Dutch East Indies, but especially to Bantam, the only district that has a regular plantation. The tree begins flowering when it is about five years old; it bears flowers twice a year, and every tree yields about 50 kilos. of flowers per year. In order to obtain 1 kilo. of oil, at least 350 kilos. of flowers are required. The oil competes with ylang-ylang oil from Manila, but the quality is much poorer. The Singapore as well as the Java variety of patchouli oil is cultivated in Java, 80 per cent. of the total quantity exported by the Dutch East Indies being furnished by the east coast of Sumatra. The plant attains a height of about 2 or 3 ft.; after six months the leaves can be gathered, and a further yield can be had in another six months. After drying the leaves are packed into small bales of about 90 lb. The export figures are not recorded separately.

War-time Episodes In Sketch and Sonnet.



II.

BEAUTY'S PRESERVATION.

When Psyche toys with too much TNT,
Her fair complexion takes a jaundiced hue,
Her hands are rough and not so good to view,
Her rosy lips feel not so soft to me,
Her eyebrows are not as they used to be;
So, gentle pharmacist, it's up to you
To keep her fair with Milk-and-Honey Dew.
For though grim War may sound its wild alarms,
And Jim the Porter mutter words of ire,
And you yourself with purple wrath perspire,
The thought of doing good your conscience warms.
Heed not the telephone, the doctor's call,
The script, the tincture or the pill at all,
For greatest of all needs is Psyche's charms.

P.A.T.A. Election.

The election of members of the Council for the various sections of the Proprietary Articles Trade Association has been completed as follows:

MANUFACTURERS' SECTION.—The "Sanitas" Co., Ltd., and Mr. John C. Umney have retired, their places being taken by Mr. J. Kenningham (Condy & Mitchell) and Mr. W. H. Woodward, M.A. (Woodward's Gripe Water).

WHOLESALE'S SECTION.—This is unchanged (*C. & D.*, January 12, 1918, p. 41).

RETAIL SECTION.—This section remains unchanged, the members being:

Atkinson, J. G., 27 Lunham Road, Upper Norwood, S.E.
Barnes, A. J., Dr., 1 Charlemont Street, Dublin.
Clarke, R. Feaver, 9 The Avenue, Gravesend.
Colley, H. W., 253 Cleethorpes Road, Grimsby.
Currie, W. L., 223 Byres Road, Partick, Glasgow.
Francis, J. B., 53 Hope Street, Wrexham.
Keall, J., 68 West Hill, Wandsworth, S.W.
Keith, A. R., 6 Chriss Street, Poplar, E.
Milner, J., 209 Trafalgar Road, Greenwich.
Pickard, S. N., Ossett, Yorks.
Pond, G. P., 68 Fleet Street, London, E.C.
Rowse, P. F., 74 High Street, Exeter.

Almanacs and Calendars.

We have received several almanacs, calendars, and other publications that wholesale houses and retail chemists distribute at this season. In spite of difficulties of production, the standard of past years has been well maintained.

THOMAS MORSON & SON, LTD., manufacturing chemists, 47 Gray's Inn Road, London, W.C. 1, forward a wall-calendar (12 in. by 9½ in.), tastefully designed, with a centrepiece representing an alchemist at work in a laboratory.

LUDFORD & CO., glass-bottle manufacturers, Brooksby's Walk, London, E. 9, send out a compact wall-calendar (7½ in. by 6½ in.), with a tear-off arrangement. On each leaf is a reproduction in colours of one of Cecil Aldin's well-known hunting scenes.

RJAR, LTD., manufacturers of photographic goods, etc., Moberley, issue a sumptuous wall-calendar (20 in. by 12½ in.), the chief feature of which is an artistic sepia print in an oval opening. The print, which is entitled "Silver Gleams," shows some charming effects of light on water.

MR. PETER FENTON, pharmacist, Cardenden, makes a strong appeal with a wall-calendar (6 in. by 4 in.) displaying as its chief feature a coloured print of a domestic scene in which the important "property" is a cradle. The dates are arranged on detachable leaves.

MR. JOHN C. SPARKS, dye-manufacturer, 30 Church Street, New York, U.S.A., distributes a wall-calendar (22 in. by 15 in.) with tear-off portion. A pastel print entitled "There's ne'er a colleen sweater," measuring 14 in. by 11 in., occupies the place of honour, and can be separately framed if desired. The production is an excellent example of good taste.

Business Changes.

J. WOODHEAD & CO. have removed from 16 Lord Street to Manchester Buildings, 3 Tithebarn Street, Liverpool.

THE BUSINESS carried on for many years in Rockingham Street, Sheffield, by Mr. X. Jepson, chemist and druggist, has been closed.

MR. E. W. BIRDSEYE has succeeded to the business of F. W. Bowyer & Bartleet, drug-brokers, 147 Fenchurch Street, London, E.C., which will be carried on under the same firm name, Mr. F. E. Annison having retired.

CLARKE & SMITH, merchants, 40 Eastcheap, London, E.C. 3, announce that Mr. Arthur Leslie Clarke is retiring. The business will be continued by Mr. Walter Smith and Major John Bamford Smith, the remaining partners. Mr. Walter John Channon has been given the procuration of the firm.

CHAS. PAGE & CO., 47-51 King William Street, London, E.C. 4, have converted their business into a private company. The partners of the firm will, as directors, carry on the business as hitherto. The new company is opening a branch office at 26 Brown Street, Manchester, for the convenience of the general chemical trade in the North of England.

Deaths.

BENNETT.—At his residence, Fitzwater Road, Park, Sheffield, recently, Mr. Robert Bennett, wholesale druggist, aged eighty-six. Mr. Bennett, who was on the Register of Chemists and Druggists as in business before August 1, 1868, was for some time the proprietor of an establishment founded in 1770. Here chlorodyne was, for the first time in local history, manufactured and supplied wholesale; it was known as "Forrest's Chlorodyne." Of late years Mr. Bennett had conducted a wholesale business at 69 Duke Street, Park. He was a Congregational deacon for fifty-four years.

BLENKINSOP.—At Hay House, St. Margarets, Twickenham, on December 24, of pneumonia following influenza, Jessie Campbell, wife of the late Mr. W. R. B. Blenkinsop (May & Baker, Ltd.).

COOKE.—At Boston, Lincs, on December 19, 1918, Florence Evelyn, daughter of Mr. Charles F. Cooke, chemist and druggist, aged thirty. (See p. 35.)

EVANS.—At 1 Orchard Gardens, Teignmouth, on December 25, Mr. Joseph James Ogilvie Evans, chemist and druggist, aged seventy-three. Mr. Evans was the son of a Nonconformist minister at Whitchurch, Salop. He was very highly esteemed in Teignmouth, where he was well known as a deacon of the Congregational Church and a Freemason. He was a pharmacist of no mean order, and was also a registered dentist. He took a practical interest in geology, and his window was often devoted to a display of fossils, which created considerable interest among visitors. Among the pharmacists who were apprenticed to him is Mr. P. F. Rowsell, J.P., member of the Council of the Pharmaceutical Society. He leaves a widow and three sons; all the sons are serving with the Forces. Some years since Mr. Evans was a frequent contributor to THE CHEMIST AND DRUGGIST over the initials "J. J. O. E."

FORBES.—At 156 Buxton Road, Stockport, on December 21, Alice Jane, beloved wife of Mr. R. T. Forbes, chemist and druggist, F.S.M.C., Castle Street.

HARTLEY.—At 87 Canterbury Road, Leyton, London, E., on December 13, 1918, Mr. Joseph Henry Hartley, chemist and druggist, aged fifty-one.

JEFFERSON.—At Whittleford, Cambridgeshire, on December 21, Mr. Thomas Jefferson, chairman of the directors of Gale & Co., Ltd., wholesale druggists, 15 Bouvierie Street, London, E.C., in his eighty-first year. Mr. Jefferson had been with the business for forty years, and was a partner before it was incorporated, when he became chairman of the directors. He travelled for the company in the northern counties, and was well known among chemists and medical men during the forty years he had made his rounds in the same district. Mr. Jefferson finished his half-yearly journey on December 18, and died on the following Saturday from pneumonia. The end was sudden, as on the previous evening he had written his usual advices to the company, the letter arriving on

the day of his death. He was fond of gardening and country life, and is believed to have been the oldest commercial traveller in the trade. The funeral took place on December 27, among those present being Dr. Wm. Martin (Newcastle-on-Tyne) and Mr. Dudley Gale, and Mr. F. W. Divers, representing Gale & Co., Ltd.

ROBINSON.—At Carlton Hall, Pontefract, on December 24, Mr. Ernest Lackie Robinson, J.P., chairman of Robinson Bros., Ltd., manufacturing chemists, Knottingley, aged fifty-three. The funeral took place at Darrington on December 28.

SMITH.—At 286 Ditchling Road, Brighton, on December 24, Mr. Thomas Hoskins Smith, for many years with Evans Sons Lescher & Webb, Ltd., London, aged seventy-four.

THURSTON.—At Newent, on December 26, Mr. C. Thurston, managing director of the Newent Drug Co., Ltd., aged sixty-seven.

PHILLIPS.—At Thornhill, Wigan, on December 24, 1918. Mr. Jonathan Phillips, J.P., Ph.C., aged seventy-six. Mr. Phillips, who was born at Flore, was apprenticed in 1856 at Godalming for five years. He then gained further experience in London, and attended lectures at Bloomsbury Square, passing the Major examination in 1864. After about three years spent as assistant in Naples and Paris, he purchased a business at Crewe; in 1871 he removed to Wallgate, Wigan, where he opened a handsome pharmacy, Messrs. Evans, Liverpool, being given *carte blanche* as to the fittings. This business was transferred to his son, Mr. (now Captain) H. S. Phillips, Ph.C., in 1909, and has since been converted into a limited company. In

the public affairs of the locality Mr. Jonathan Phillips had for many years an important share. He was a member of the Wigan Town Council for upwards of thirty years, and was an Alderman of the borough. In 1892 he was elected Mayor, and five years later was appointed a Justice of the Peace. He was President of the Wigan Chemists' Association for some years, and was a member of the local Insurance Committee and many other bodies. His connection with the Wigan Corporation ceased in 1913. The death of Mrs. Phillips, which occurred last August, was a severe blow to his vitality. He leaves two children, Captain H. S. Phillips, R.E., Ph.C. (a member of the Pharmaceutical Society's Bloomsbury Square staff prior to entering the Army), and Mrs. Bennett (wife of Mr. R. R. Bennett, B.Sc., Ph.C.), who follows her father in the practice of dentistry. The funeral took place at Upholland Parish Church on December 27.

Died on Service.

COOPER.—Company Quartermaster-Sergeant W. C. Cooper, Hampshire Regiment, has died of broncho-pneumonia, on active service. Prior to enlistment Sergeant Cooper was with Timothy White Co., Ltd., at the Sandown branch.

FRASER.—Private Alexander Fraser, West Riding Regiment, is officially reported to have fallen in action on October 9, 1917. Private Fraser was the elder son of Mr. John Fraser, chemist and druggist, Helmsdale, and prior to his enlistment in 1915 was a chemist's assistant in Edinburgh.

JONES.—Lieutenant Arthur Jones, Machine Gun Corps, chemist and druggist, died in France, of wounds received in action, on August 23, 1918, aged twenty-eight.

MASSEY.—Driver J. Massey, A.S.C., has died, of influenza, in France. In civil life Driver Massey was with Joseph Crosfield & Sons, Ltd., Warrington.

Wills.

MR. WILLIAM PICKUP. chemist and druggist, 56 Bank Top, Blackburn, who died on November 12, left estate valued at £2,630L 15s. 7d. gross, with net personality £1,229L 5s. 1d.

MR. GEORGE COVERDALE. 5 Grosvenor Terrace, York, formerly of Geo. Coverdale & Sons, Ltd., chemists, who died on October 29, has left £8,035L 10s. 9d. gross, with net personality £3,278L 18s. 1d.

ALDERMAN VALENTINE FOWLER. 13 Alma Square, Scarborough, formerly in business as a chemist, but afterwards as an auctioneer, who died on August 20, left property of the gross value of £10,517L 12s. 9d., with net personality £6,173L 5s. 4d.

PRIVATE OLIVER RILEY. North Lancashire Regiment, 7 St. George's Square, St. Annes-on-the-Sea, and of J. Riley & Sons, chemical-manufacturers, of Hapton, who was killed in action on May 27, left estate valued at £16,214L 5s. 7d. gross, with net personality £3,940L 15s. 1d.

MR. JOSEPH YOUNG. Ph.C., 33 Danes Hill Road, Leicester, who died on July 13, left estate valued at £2,856L 2s. 9d. gross, with net personality £2,795L 1s. 5d. Probate has been granted to his sons, Mr. F. J. Young, 11 North Avenue, Leicester, Mr. Wm. T. Young, 7 Spring Gardens, Buxton, Derby, and Mr. A. E. Young, 3 Meller Road, Leicester, pharmaceutical chemists.



MR. T. JEFFERSON.

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Mr. C. Thurston, managing director of the Newent Drug Co., Ltd., aged sixty-seven.

The Parliamentary Election.

THE results of the election of members of Parliament were announced on December 28. The following particulars are of interest to our readers:

ELECTED.

Dr. C. Addison, Minister of Reconstruction, who introduced the Ministry of Health Bill into the House of Commons, was successful at Shoreditch. He is a medical man.

Mr. A. F. Bird, who was returned for West Wolverhampton, is a director of Alfred Bird & Sons, Ltd.

Colonel Sir E. A. Brotherton, the new member for Wakefield, is a director of Brotherton & Co., Ltd., Leeds, ammonia-manufacturers.

Lieut.-Colonel Alan Burgoynes, elected for North Kensington, is a director of P. B. Burgoynes & Co., the importers of Australian wines to the British market.

Sir Watson Cheyne, the distinguished medical man, represents the Scottish Universities.

Sir Richard Cooper, M.P. for Walsall, owns the businesses of Wm. Cooper & Nephews, Berkhamstead, and British Odol.

Sir Edwin Cornwall, elected for N.E. Bethnal Green, is the Chairman of the National Health Insurance Joint Committee.

Mr. Alfred Davies, M.P. for Lincoln, is a director of the York Glass Co., the West Ham Glass Co., and the Aerial Chocolate Co., Stratford.

Sir Auckland Geddes, the member for the Basingstoke Division of Hampshire, is a medical man and President of the Local Government Board.

Sir A. Steel Maitland, elected for the Erdington Division of Birmingham, is Director-General of the new Commercial Intelligence Department of the Board of Trade.

Sir Alfred Mond, well known in chemical industry, the son of the late Dr. Ludwig Mond, F.R.S., was returned for West Swanscombe.

Lieut.-Colonel Grant Morden, chairman of the British Cellulose Co., Ltd., was elected for the Brentford and Chiswick Division of Middlesex.

Sir Wm. Pearce, M.P. for Limehouse, is a director of Spencer, Chapman & Messel, Ltd., chemical-manufacturers.

Mr. Samuel Samuel, elected for Putney, is a director of the Shell Transport and Trading Co.

Sir Albert Stanley, re-elected for Ashton-upon-Lyne, is President of the Board of Trade.

Sir William Whitla, M.P. for Queen's University, Belfast, is Professor of Materia Medica and Therapeutics and a pharmaceutical chemist.

Mr. J. H. Whitley, from whom the Whitley Councils take their name, was re-elected for Halifax.

Mr. J. W. Wilson, re-elected for the Stourbridge Division of Worcester, is a director of Albright & Wilson, Ltd., Oldbury, chemical-manufacturers.

Sir Richard Winfrey, M.P. for South-West Norfolk and Joint Parliamentary Secretary to the Board of Agriculture, is a pharmaceutical chemist.

Mr. W. J. Uggle Woolcock, returned for Central Hackney, is a pharmaceutical chemist and manager of the Association of British Chemical Manufacturers. He was until recently Registrar and Secretary of the Pharmaceutical Society of Great Britain.

UNSUCCESSFUL.

Mr. W. C. Anderson, formerly M.P. for the Attercliffe Division of Sheffield, who in early life was a chemist's assistant, was defeated. His wife ("Miss Mary Macarthur") was unsuccessful for the Stourbridge Division of Worcester.

Mr. W. Bennett, chemist and druggist, was unsuccessful in the contest for the Guildford Division of Surrey.

Mr. J. F. L. Brunner, defeated at Northwich, is a well-known chemical manufacturer.

Mr. T. R. Ferens, managing director of Reckitt & Sons, Ltd., starch and blue manufacturers, Hull, was defeated at East Hull.

Mr. W. Hill, unsuccessful for the Moseley Division of Birmingham, is proprietor of the County Chemical Co., and was formerly a chemist's assistant.

Mr. T. Lough, director of the Tower Tea Co., Ltd., was defeated at West Islington.

Colonel Arthur Lynch, who was unsuccessful in the contest for South Battersea, is a medical man, and was a member of the Committee on Patent Medicines.

Sir Thomas Robinson, unsuccessful at South Dublin, is a pharmaceutical chemist and managing director of Hayes, Conyngham & Robinson, Ltd., chemists.

Mr. W. Shadforth, Ph.C., who stood as the health candidate for N.E. Bethnal Green, was unsuccessful.

Personalities.

MAJOR F. G. LESCHER, M.C. (with bar), R.A.M.C., who was a prisoner of war in Germany, has now arrived in England.

SECOND-LIEUTENANT GORDON HARVEY, Royal Scots, son of Dr. James Harvey, Tranent (who is also a chemist and druggist), has been awarded the Military Cross.

THE "Daily Telegraph" states that Fritz Boehm, managing director of Frederick Boehm, Ltd., chemical merchants, who on account of his nationality was interned last August, has been released.

MR. GEORGE MIDDLETON, pharmacist, who has had ten years' experience in London in the export trade, has taken up the position of Home and Colonial sales manager to the Veno Drug Co., Ltd., Manchester.

MR. C. H. BEMBRIDGE, who has been engaged in London in the export trade for the past fourteen years, has been appointed manager of the export department of Ayrton, Saunders & Co., Ltd., Liverpool. He takes up his duties on January 6.

MR. CHARLES E. MUSGRAVE, Secretary of the London Chamber of Commerce, was on December 24 presented by the members of the staff of the Chamber with a dressing-case as a mark of their appreciation and of the cordial relations existing between him and them.

MR. K. S. DICKINSON, Ph.C., Principal of the Chester and North Wales College of Pharmacy, is being joined by Mr. Harry Berry, Ph.C., who has been serving with the Forces. The College premises have already undergone one enlargement, and this young but up-to-date establishment is evidently forging ahead.

SECOND-LIEUTENANT WILFRED T. WHITE, Royal Garrison Artillery, has been awarded the Military Cross for gallantry and devotion to duty. Second-Lieutenant White served his apprenticeship in pharmacy with Mr. R. T. Christopher, chemist and druggist, Bradford-on-Avon, with whom he afterwards remained as assistant until he joined the Forces.

MR. CHARLES M. CAINES, who has been chemist to Squire & Sons, Ltd., chemists in ordinary on the establishment of the King, Oxford Street, London, W., for nearly twenty-five years, has been elected a Fellow of the Institute of Chemistry. Mr. Caines has been associated with Sir Peter Squire in the production of "Squire's Companion," and has done special work in connection with the medical services of the Forces.

SECOND-LIEUT. WILFRED T. WHITE.

THE list of New Year honours includes a knighthood for Dr. W. L. Mackenzie, the medical member of the Local Government Board for Scotland. Mr. P. W. L. Ashley, Assistant Secretary of the Department of Industries and Manufactures, Board of Trade, has received the C.B., and Mr. W. H. Beveridge, Second Secretary of the Ministry of Food, has been promoted to K.C.B. Dr. Robert Bruce Low, retired assistant medical officer of the Local Government Board, receives the C.B. Sir Geo. Anderson Critchett, Bart., is promoted to K.C.V.O.



Associations' Winter Session.

Newport (Mon.).—The Newport Pharmacists' Association met on December 17, Mr. Benson Harries (President) in the chair, when the reorganisation proposals and the future of pharmacy were discussed. The general apathy of pharmacists was unfavourably commented on, and various reasons were given to account for this condition of affairs, the principal one being the lack of opportunity for personal intercourse with headquarters on questions of policy. A resolution was carried, confirming that of August 27 (C. & D., September 7, p. 46), in favour of annual elections and territorial representation. The institution of a Whitley Council was also discussed, and it was considered desirable, for the sake of unity of control, that if such a body was found necessary it should be formed within the Society, with power to co-opt members from outside the Pharmaceutical Council.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

QUALITATIVE ANALYSIS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopoeia, and is to be submitted to a thorough systematic examination, all its constituents to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, January 7, on which day the samples will be posted. Students' reports will be received up to Saturday, January 18. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the third exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," December 25, 1918.)
 "AFISILLA"; for chemicals (2). "CAPSINE BRAND PLANT WASH"; for plant washes (2). By The Yalding Manufacturing Co., Ltd., near Hampstead Lane, Yalding, Kent. 380,973, 381,017.
 Oval picture of Hermes and words, "Established 1760"; for chemicals (2). By L. Berger & Sons, Ltd., 201 Morning Lane, Homerton, E. 9. 384,217.
 "COLDORA"; for disinfectants, etc. (2), and for perfumery, etc. (48). By The Verston Toilet Co., 169 Brockley Road, S.E. 4. 385,792/3. (Associated.)
 "GRACO"; for all goods (2) and (4). By Grace Bros. & Co., Ltd., 144 Leadenhall Street, E.C. 3. 385,932/934. (Associated.)
 "BLACK LEAF 40"; for a nicotine solution for dipping animals (2). By The Kentucky Tobacco Product Co., 733 South Ninth Street, Louisville, Kentucky, U.S.A. 386,183.
 "AUTOGEN"; for surgical adhesive tape, etc. (11), and for insulating adhesive tape (50). By D. Brown, jun., 45 Hope Street, Glasgow. 385,789/800. (Associated.)
 "CONSOL"; for safety razors, etc. (12). By Consol Automatic Aerators (1914), Ltd., Hanworth Road, Sunbury Common, Middlesex. 385,422.
 "MAJESTIC"; for safety razors and blades (12). By J. Turner, 74 Coleman Street, E.C. 2. 386,128.
 "SAVOROX"; for all goods (42). By H. Savory & Co., Ltd., 211 High Street, Lewisham, S.E. 13. 385,984.
 "THEMAX"; for linseed oil, meal, etc. (42). By McMaster, Hodgson & Co., Ltd., 121 Capel Street, Dublin. 386,062.
 Picture of chamois; for goods (47). By S. D. Simond & Co., Ltd., 10 Monument Street, E.C. 3. 385,189.
 "BOROGON"; for perfumery, etc. (48). By J. Phillips, 29 High Street, Hampstead, N.W. 3. 385,220.
 "ASTARTE"; for perfumery, etc. (48). By John Bell, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, S.E. 1. 385,742.
 "THE DON TOILET SOAP" on picture of cake of soap; for soap (48). By Charles & Co., Ltd., Marshall Street, Leeds. 385,974.
 "MAGEKA"; for all goods (48). By E. Russell-Davis, Greenlands, Greenlands Road, Staines. 386,196.
 "CHARME VAINQUEUR"; for perfumery, etc. (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, E. 15. 386,399.
 "PROSTEETON"; for tooth and palate brushes (50). By A. Moore, Abbey View House, Church Street, Tewkesbury. 384,691.

MASTER OF COMMERCE.—The University of London has added to its list of degrees those of Bachelor and Master of Commerce.

HOPPE YOU "C" IT.—The euphuists of a past age "fancied themselves," no doubt, in the art of bestowing praise; but the subscriber (30/9) who lately sent us the following rhapsody could have given them points: "The C. & D. is the C(orrect) and D(esirable) C(ompendium) and Dialectician) all ready C(ooked) and D(igested) for busy C(hemist) and D(druggist)—there you have it C(ut) and D(ried)."

Trade Notes.

INDIAN DRUGS.—Narotam, Girdhar & Co., Bombay 2, advertise Indian drugs in this issue.

FRENCH PERFUMERY PRODUCTS.—M. Gilbert, Vincennes, near Paris, advertise essential oils and crude products for perfumery.

"PRANA SPARKLET BULBS" of type "C," for use with "C" or "D" syphons, are now obtainable. The bulbs retail at 3s. 6d. Other types are promised soon.

FERTILISERS and agri-horticultural specialities are supplied by Hunter & Gow, Ltd., 36/46 Thomas Street, Liverpool. The company invites applications for Catalogue.

CARNATION DISTOL.—A charming advertisement in this issue of Thomas Kerfoot & Co., Ltd., Bardsley Vale, deals with Carnation Distol, a perfume material true to name.

COLLAPSIBLE TUBES of British manufacture are a specialty of The John Dale Manufacturing Co., New Southgate, London, N. 11. The same firm make perfume sprinklers and tin boxes.

WILLOWSPRICE D'ARAK, a vanishing cream for the face and hands, is the main topic of the advertisement in this number of John Timpson & Co., Ltd., 104 and 106 Golden Lane, London, E.C. 1.

JABEZ WOLFFE'S CHANNEL EMBROCATION.—Particulars of this proprietary are given in this issue by the London Hygienic Chemical Co., Ltd., 37 Eastcheap, London, E.C. 3. The embrocation "draws pain from the people."

EARLIER CLOSING.—F. Newbery & Sons, Ltd., druggists' sundriesmen, 27 and 28 Charterhouse Square, London, E.C. 1, will close in future at 5.30 P.M. instead of 6 P.M. as hitherto. The closing hour on Saturdays will be 1 P.M. as usual.

LEROZA theatrical cold-cream and grease-paint remover is good stock for chemists whose premises are near theatres or music-halls. The article is made by Archibald Mole-Floyd, The Leroza Theatrical Stores, 75 Cambridge Street, Glasgow.

VIOLIV ICE is a solid preparation for rough hands and cracked lips, attractively put up in a neat carton and retailing at 4½d. A sample that we have tried compares very favourably with pre-war articles of this class; it is sufficiently perfumed, and in the important matter of solidity hits the happy medium. The trade terms (which include bonus, showcards, etc.) will be found in the advertisement of the Violiv Manufacturing Co., 26 Haymarket Terrace, Edinburgh.

NEW YEAR GREETINGS.—More advertisers in this issue convey in their announcements New Year greetings to the drug-trade:

Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton.

R. W. Greeff & Co., Thames House, Queen Street Place, London, E.C.

N. M. Mitchell & Sons, Ltd., Bouchon Works, Limehouse, London, E. 14.

Sangers, 258 Euston Road, London, N.W. 1.

The Veno Drug Co., Ltd., Chester Road, Manchester.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

5/74. "Omo" | 5/39. "Vivadina" perfume

5/74. "Sopo" | 7/4. "Altesia" skin-food

1/41. Booth Chemical Co.'s | 3/27. "Novasturin" products

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

Abbey effervescent salt. 7/1	Crosby's balsamic cough elixir, 241/200
"Antiphlogistic," 1/31	"Cuckoo" brand sundries, 249/49
Cactina pillets, 3/50	Delectol, 252/24
"Camphylene" preparations, 248/6	"Frozoclene," 258/48
Chemists' wrapping-papers, 249/201	Granwhite discs, 258/56
Chlorogen, 251/23	Lecithin exovo, 254/48
Chloroglucin, 249/58	Liquorice-root, 251/29
Crembas (South African inquiry), 236/64	"Listerine" tooth-powder, 230/31
Cremogen, 236/640	Litmus papers, 1/16
Creolin, 250/19	Mastisol, 255/9

Observations and Reflections.

By Krayser II.

Your Diary for 1919

is like the famous pill; it "doesn't go fooling about, but attends strictly to business"; it is "as searching as a small-tooth comb." Condensed as is the information you give, nothing relating to the matter in hand, whatever it may be, seems to have escaped your net, and where everything is essential it is difficult to say which is most important. As regards both commercial and legal intelligence the Diary leaves nothing to be desired. The "Buyer's Guide" is more complete than ever; the "War Regulations" (most of which will, I fear, remain in force for some time yet) are a perfect epitome, admirably arranged, of all that it is necessary to keep in mind; and the reproduction in this easily accessible form of the "Extended List of Poisons" leaves your subscribers without excuse for any ignorant or careless error into which they may fall in regard to these substances.

"The Hazy Idea of the Duties of a Chemist"

on the part of the public, of which you spoke in last week's leader, is mainly our own fault; we make ourselves too cheap. In this respect, in spite of our undoubted general advance in education, I believe we have as a body rather lost than gained ground during the last fifty years. I believe that in popular estimation we then stood more distinctly apart from the mere tradesman than we do now. Probably our shop-windows are partly to blame for this. I often have to look twice before being quite sure which of two shops standing side by side in my own neighbourhood is the chemist's and which the general dealer's. It would be almost a libel on human nature to suggest that the increased suavity of the modern druggist is a contributing cause, but salesmanship has its dangers. I have sometimes thought it pushed beyond what is due to self-respect.

The Suggestive Paper

read by Mr. Forbes before the North British Branch, and the discussion which followed, have many points of interest, but there is one aspect of our education problem which does not seem to have been taken sufficiently into account. Pharmacy is an art as well as a science, and pharmaceutical education is therefore a two-fold process, the parts of which cannot always be directly connected with each other as regards either time or place. This is recognised in the proposal to divide the Qualifying Examination, but it has effects extending beyond the schools. The examination might well be made an integral part of the scheme for University graduation in science for those who choose a career in science, but this is not, and never can be, the main line of pharmacy itself; the science we require is mostly preliminary and subsidiary to an art, and I was surprised to find Jay Mack of the opinion that Parts I. and II. of the examination ought to be reversed. It is not so. The theoretical should precede the technical. But when the student enters the shop he does not necessarily "break off the student habit"; far from it; he merely passes from one branch of study to another; before, he studied to know; now, he studies to make; and he continues to enlarge his knowledge as much as his practical skill. In fact it is only by putting knowledge into practice that we really master it, but none the less in an applied science such as ours it is inevitable that pure science must eventually take a back seat.

An Uneasy Suspicion

seems to be in the air of something behind the new by-laws, which might considerably modify such approval as they have met with. I am not sufficiently behind the scenes to know definitely what is feared, but it relates, I believe, to a deal with the Apothecaries' Company which might result in an influx of partially qualified men into our ranks. I do not see

how the published draft of the by-laws opens any door to such an influx, and as I have recently stated I think that a satisfactory deal with the Apothecaries might conceivably be made by pressure of the assistant question as it affects both bodies, but any attempt to bring this about must be open and aboveboard. I profoundly dislike all secret diplomacy, and I have no faith at all in the Council's diplomatic action, whether open or secret. It has an unfortunate way of getting left when it plays the diplomat, and if it be a fact that something is being kept up the sleeve one's instinctive distrust is more than justified. Why are not all the new by-laws produced at once; why is their meaning and scope left so much to our own interpretation? I understand that there is some hope of greater publicity in future for the Council's proceedings than has been permitted hitherto, but it will avail us little if we are not enlightened until after the event.

That Loan from the Benevolent Fund

to meet the current expenses of the Society looks the uglier the longer we consider it, and I am surprised that no public protest but mine appears to have been made against it. Though the manner of dealing with the financial report was criticised at the Council meeting I do not gather from your report that any objection to this loan was made there, but it is incredible that the principle involved could have been universally approved. Was there any opposition to the proposal in Committee? In whose brain did it originate? These are points on which only those can enlighten us who may feel in honour bound to keep silence. I do not envy them their position as men with a reputation for business capacity. I should like to know what Jay Mack, or any other business man not committed to wholesale approval of the Council, thinks of the transaction. I am pretty sure that if the loan had been drawn from the War Auxiliary Fund it would have raised a general chorus of indignant remonstrance, and I cannot see any difference between the two cases. Nothing that has hitherto transpired or been confessedly suppressed with regard to the Society's financial position and policy, seems to me so disquieting as this.

Your Contributor, "An Old Stager."

scarcely goes far enough when he says that the net cost of a speciality of one's own, *plus* its get-up, should not much exceed a third of its selling-price. My experience tells me that it should be under a third of the selling-price, without reckoning the stamp, if any substantial result is to be obtained. I remember, too, hearing the proprietor of a once-famous proprietary say that the net cost of the ingredients of a thirteenpence-halfpenny patent ought not to be more than twopence, and the total figures he gave in support of this were convincing. He was contemplating a sale through wholesale houses and retail agents, it is true, but I found that if the thing were properly pushed it was certain to result in orders from retailers at least, and that this fact had to be faced in the long run. I never advertised beyond my own neighbourhood, but if a thing is really good its fame spreads. I confess I am not quite in agreement with your contributor with regard to fancy names. Unless they are extremely happy, which is not often the case, I should say a pleasing collocation of known and descriptive terms is better. As a matter of fact many of the most successful patents have not fancy names. "Kofstop," I must take leave to say, is hideous.

Deed of Arrangement.

Lever, Jacob Nathan, trading as Levers, Moreton Street, Strangeways, Manchester, chemical manufacturer. Trustee, H. Sharp, 30 Brown Street, Manchester, accountant. Dated December 23; filed December 27. Liabilities £8,322.; estimated net assets, 4,019. Among the creditors are: Brotherton, Ratcliffe & Co., Ltd., 950.; Fuerst Bros., Ltd., 367.; Cadbury Bros., Ltd., 91.; Chemists' Sundries, 147.; Brunner, Mond & Co., Ltd., 15.; Rowntree & Co., 32.; S. W. Wilkinson & Co., 57.

SANITAS

DISINFECTANTS

(Fluids, Powder, and Soaps).

Also

"Sanitas-Bactox" Homogeneous Phenoloid Disinfectant ;
18/20 co-efficient.
"Sanitas Okol" Emulsified Phenoloid Disinfectant ;
18/20 co-efficient.
"Sanitas Sypol" (Improved Lysol).
"Sanitas Sulphur Candles."
"Sanitas Formico Sulphugators."
"Sanitas Formigators."
"Sanitas Drain Testers."
"Sanitas Polishes."
"Sanitas Distemper." for walls.
"Sanitas Creoleum" (wood preserver).
Peroxide of Hydrogen (Kingzett's Preserved).

Kingzett's
PatentTHE "SANITAS" CO., Ltd.,
Locksley Street, Limehouse, LONDON, E. 14.

SACCHARIN TABLETS

(Half Strength).

Either in bulk or packed in neatly decorated tins each containing 100 or 200 tablets:

100's 9/8 per dozen.

200's 18/4 "

Retail 1/- and 1/11 per box.

20,000 lots in bulk at 6/6 per thousand.

IMMEDIATE DELIVERY provided cash accompanies order.

W. B. CARTWRIGHT, Ltd.,
RAWDON, Near Leeds.

BRITISH ABSOLUTE ALCOHOL

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LAMBETH, S.E. 11

Essential Oils AND Aromatic Chemicals

W. NAUMANN, 40 Charterhouse Sq., London, E.C. 1.



Wilcox, Jozéau & Co.
49 HAYMARKET, LONDON, S.W.

Export and other Buyers should apply for a List.
Foreign Prescriptions dispensed for Pharmacists.

CLOVE OIL Ang. B.P.
JUNIPERBERRY OIL Ang. B.P.
PEPPERMINT OIL B.P.
(English Plants).
THYMOL Ang. B.P.

H. RUBECK, DISTILLER OF ESSENTIAL OILS.—Established 1856.

59 Mark Lane, London, E.C. 3.
Works - Rotherhithe, S.E. 16.

*Fletchers Concentrated liquors,
offer a perfect alternative to the discarded
B.P. Tinctures and Syrups.*

FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

Parliamentary Prospects.

THE results of the Parliamentary Election, which are given on another page in this issue, are not particularly favourable to pharmaceutical interests in the House of Commons. Mr. W. J. Uglov Woolcock, who was until recently Registrar and Secretary of the Pharmaceutical Society, but is now manager of the Association of British Chemical Manufacturers, is the official representative of pharmacy in Parliament, and is a "strong man" for the position, as his knowledge of pharmaceutical politics is unrivalled. Mr. W. Bennett, the other chemist candidate, who contested the Guildford Division of Surrey, was not elected. Sir Richard Winfrey, Ph.C., who always gives hearty support to measures designed to assist the chemists, is a Minister of the Crown, and has wider interests than pharmacy. Sir Wm. Whitla, who represents Queen's University, Belfast, is an Irish pharmaceutical chemist, but Sir Thomas Robinson, Ph.C., who contested South Dublin, was unsuccessful. The prospects for pharmacy are not altogether rosy, and Mr. Woolcock will have to "keep his eyes skinned" in his desire to let nothing pass him connected with pharmacy which requires investigation. It would have helped him if he had had two or three other chemists to watch with him in the ceaseless vigil which his position entails. There will, we think, be plenty of work for him to do. The Ministry of Health Bill, which was introduced into the House of Commons just before the dissolution by Dr. Addison, the Minister of Reconstruction, may be considered to have been endorsed by the electorate, as both its introducer and Sir Edwin Cornwall were returned by large majorities. Sir Edwin is Chairman of the National Health Insurance Joint Committee, and one of the proposals of the Bill is the transference of the functions of the National Health Insurance Commission to the new Ministry of Health. Sir Auckland Geddes, the President of the Local Government Board, whose Department is to be glorified into a Ministry of Health, is a medical man like Dr. Addison, and the proposals of the Ministry of Health Bill, already very favourable to the medical profession, are not likely to be modified. The fact that the new Ministry will have been captured by the doctors augurs unfavourably for chemists' interests. Where doctors dominate chemists go to the wall has been the lesson of the past, and it is likely to be continued. The reconstruction period is likely to bring other problems forward which will need close watching by our Parliamentary representative.

Telegrams: "AGENTICUM, GRACE, LONDON."

Telephone: AVENUE 1098 (2 lines).

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OFFER SPOT AND FORWARD DELIVERY—

Acid Benzoic
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Guaiacol Carbonate
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 Hydroquinone
 Paraldehyde
 Phenacetin
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 Vanillin 100 %

Inquiries Solicited.**WHOLESALE & EXPORT.**

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FORT-REVIVER FORTIFIES & REVIVES



Luscious, Fresh and British.

*A LIQUEUR TONIC
The Stimulant that Sustains*

FORT-REVIVER is a most beneficial stimulant and has wonderful fortifying and reviving powers. Its effects are almost instantaneous, and they do not pass away. Those who take it regularly will be taking care of their health as well as consulting their pleasure.

Entirely British Made and Non-alcoholic

Wholesale price to the Trade only.

50/- per case, large size bottles.

36/- „ smaller „

Minimum retail price.

5/6 per large size bottle.

3/9 „ smaller „

For full particulars apply to H. & C. NEWMAN, London Office, 41/42 Upper Rathbone Place, W. I.

BRUNNER, MOND & CO., LIMITED.

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ALKALI PRODUCTS.

These products are made by the Ammonia Process, and are distinguished from others by their great purity.

**Bicarbonate
of
Soda.**

This Bicarbonate answers all the requirements of the British Pharmacopoeia. It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

**Concentrated
Crystal
Soda.**

This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

**Pure Alkali.
58 Degrees.**

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

Pure Soda Crystals Caustic Soda.

Manufactured from pure Carbonate of Soda, and supplied of all degrees of strength.

Bleaching Powder. Carbonate of Ammonia (Lump and Powder).

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co.'s "Crescent" Brand. The Manufacturers supply wholesale quantities only, and will quote on application to

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We are constantly receiving evidence that

HOWARDS' ASPIRIN TABLETS

satisfy a really urgent demand from the Medical Profession and the Public.

The extraordinary number of repeat orders we receive show what a remarkable selling line they are.

They are well advertised in all the leading monthly and weekly papers.

The Retailer can have

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A Hundred per cent. Profit.

A leading Doctor says the difference in therapeutic efficiency between Howards' and other brands is

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Specialities

LYSOL (Gadd)

ANTISEPTIC, DISINFECTANT, SOLUBLE. FORMS A CLEAR SOLUTION.

Invaluable in Surgery and for Sick Rooms, &c.

4-oz. bottles	Retail price (protected by P.A.T.A.)	9d.	... ...	Per dozen	6/-
8-oz. "	"	1/3	... ...	"	10/-
16-oz. "	"	2/3	... ...	"	18/-
32-oz. "	"	4/-	... ...	"	32/-

ALSO IN DRUMS AND CASKS.

CAERWISC COLOGNE

2 oz., to retail	2/6	P.A.T.A. Protected Price,	2/6	per doz.	21/-
4 "	4/6	"	4/6	"	42/-
8 "	8/-	"	8/-	"	72/-

Special Terms for £5 lots and for Window Shows. Attractive Showcards supplied free of charge.

CONFELLAX

A dainty preparation, having the appearance and flavour of a delicate confection, and the action of a gentle laxative.

Retail Prices (Protected by P.A.T.A.).	Wholesale Prices.
In bottles ... 1/6, 2/6, 4/- ...	10/6, 20/, 36/-

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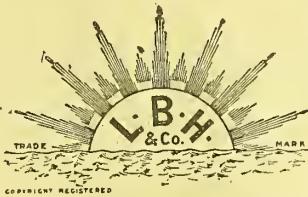
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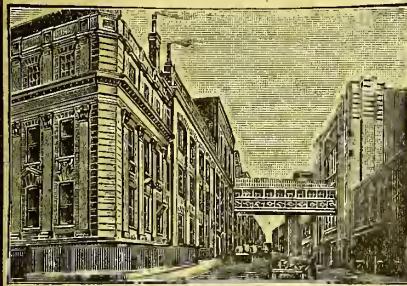
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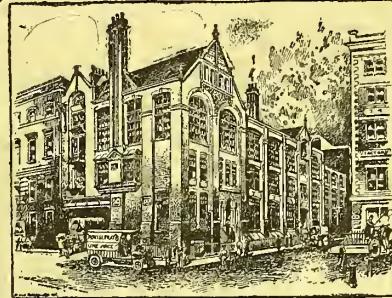
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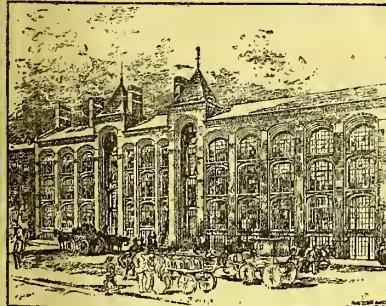


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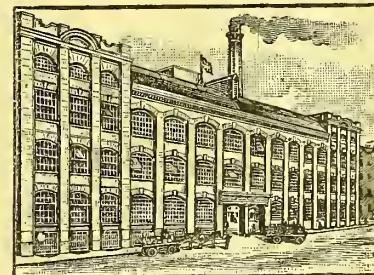


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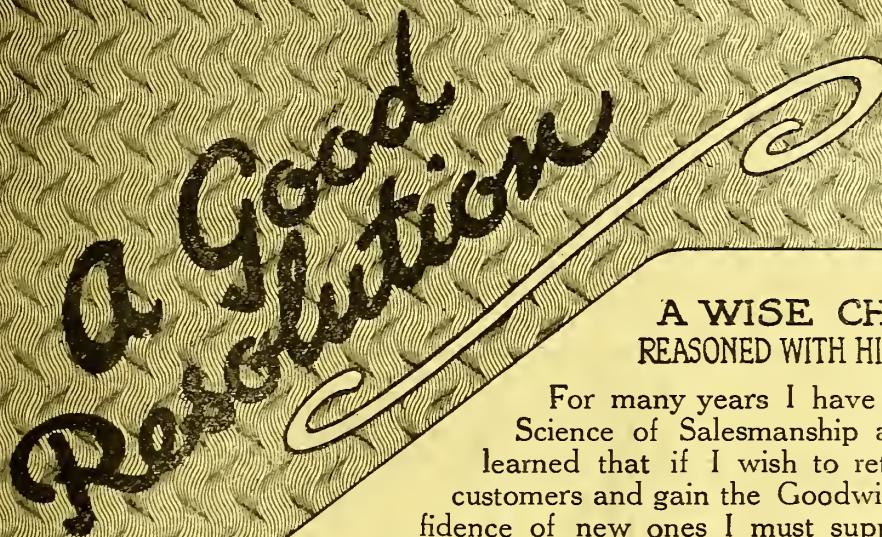
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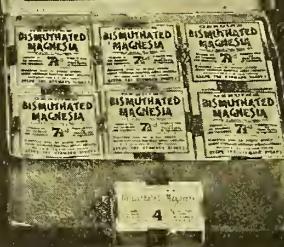
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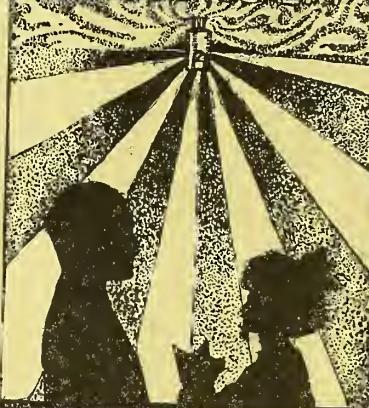
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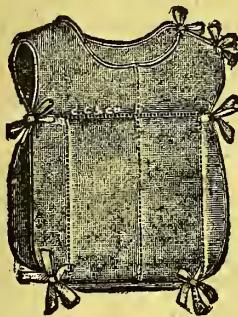
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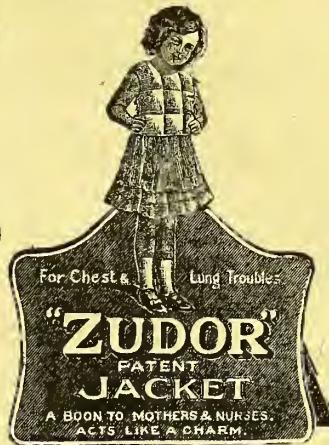


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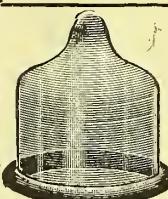
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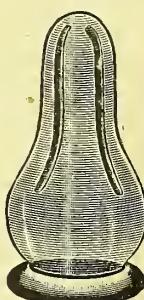
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TRANSPARENT TEATS

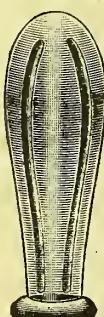
Here is a small selection from our great variety



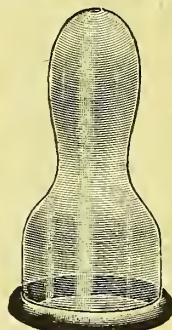
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No. 50 R.



No. 4 R.



No. 90.

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Phone: MAYFAIR 681.

Wire: "OYLERISM. WESDO. LONDON."

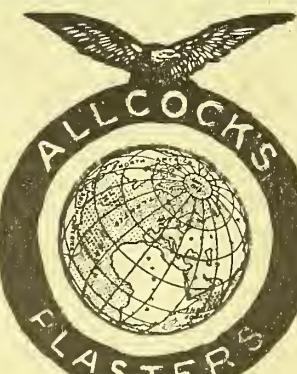
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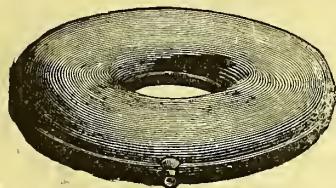


Fig. 1194.

**BRITISH
MAKE.**

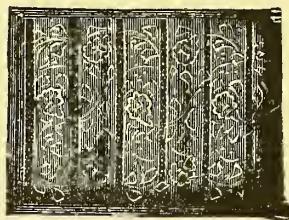


Fig. 1354.

Fig. 1194.—The "EMPIRE," red India-rubber Air Cushion—

Diameter	14	15	16	17	18	19	20 in.
Each ...	7 0	8 0	9 0	10 0	11 0	12 6	14 0

Fig. 1354.—Air Cushion, sateen covered, reeded

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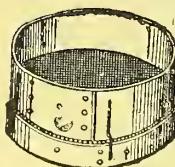
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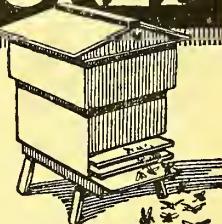
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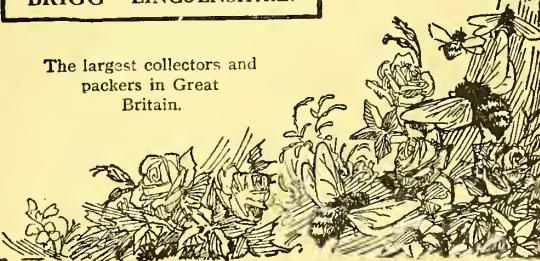
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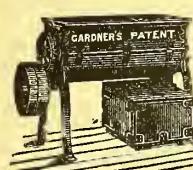
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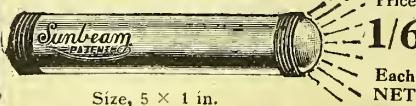
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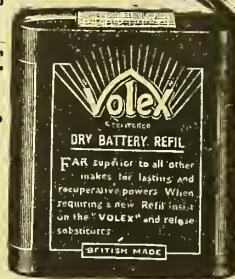
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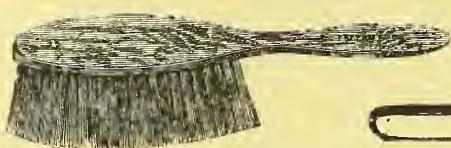
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For 10/- cash with order, carriage paid. 20 3

Orders value £5 subject to 10% discount and
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TRADE NOTICE.

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At the request of a large number of Chemists throughout the Country we have decided, from the above date, to fix the retail prices of PHOSFERINE, and all our other Proprietary Medicines, at face value, viz.:

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JANUARY 4, 1919.

Advertisements for this Supplement must be received not later than First Post on Thursday Morning.

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1.—LONDON, N.W. (Death Vacancy).—Ready-money Business, situate near busy tube station; returns over £1,500 at fair prices; handsomely fitted shop, fairly stocked; roomy house, garden; new lease will be granted; valuation terms entertained.

2.—LONDON.—Old-established good-class Retail and Dispensing Business; returns upwards of £2,000; scope for development; well-fitted shop and comfortable residence; no near opposition; price to be arranged equitably.

3.—HYDE PARK.—For immediate disposal, high-class Dispensing and Retail Business; returns about £1,200; gross profit between £650 and £700; the business is known to us, and we can recommend it; valuation terms.

4.—HOME COUNTY.—Good middle-class residential locality; Retail and Dispensing Business, situate in close proximity to railway station; returns under Manager, £1,500 (about); modern fitted shop and excellent residence; price about £600, or £175 for goodwill; stock and fixtures by valuation; part payment.

5.—CRYSTAL PALACE DISTRICT.—Cash Retail and Dispensing Business; established many years; returns about £1,150 at fair prices; there is also an appointment attached; rent £46; held on lease; stock and fixtures valued at £550; price £675.

6.—KENSINGTON, W.—Dispensing and Retail Business; returns £800, formerly £1,000; well-fitted shop and comfortable residence; held on lease; first reasonable offer accepted; death cause of sale.

7.—SYDENHAM.—An opportunity presents to acquire a neglected Business for the sum of £200; the premises comprise double-fronted shop, nine rooms, private entrance; small garden; rent £38; no immediate opposition.

8.—POPULAR HEALTH RESORT (S.E. Coast).—Well-established Business; returns during next year should be about £1,500; present rate £1,000; the business is situate within easy distance of the sea; valuation terms entertained.

9.—KENT COAST.—Good middle-class Business; Dispensing, Prescribing, and Photographic; established 50 years; returns £900; present rate, owing to neglect, £550; comfortable residence; rent £45; price £350; excellent opening for an energetic man with small capital.

10.—HOME COUNTY.—Modern Pharmacy, chiefly ready money, situate in centre of good market town; returns average between £3,000 and £4,000; well-appointed shop and good residence; about £3,000 required.

11.—N.W. COAST (Popular Health Resort).—Ready-money Business; capital situation; returns £2,700; net profit £900; turnover might be materially extended under qualified management; price £2,500.

12.—L. & N.W. MAIN LINE.—Old-established Business; Retail and Wholesale in packed goods; gross receipts exceed £8,000, and during the past three years the average gross profit amounted to £2,031; the premises are held on long lease at a rental of £60; price about £3,000; a banker's reference will facilitate business.

13.—NORTH OF ENGLAND.—Cash Retail Business, with excellent sale for own Proprietaries; returns average £2,500; net profit £700 to £800; stock and fixtures valued at £2,500; rent £50; price £2,300; death cause of sale.

14.—SOUTH MIDLANDS.—Good-class Business for disposal through death; established upwards of 100 years; returns over £1,300; net profit £300; no opposition; price £1,000.

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Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

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LONDON, N.—Shop, d.f. Chemist's; completely and well fitted; established over 20 years; chance to pick up good business cheap; rent £60. Owner, 160 Stoke Newington Road, N.

LONDON OUTSKIRTS.—Sound, middle-class Business; turnover last year £1,640; well-fitted and stocked; main road; suitable building district; price for quick sale; valuation, stock, fittings, etc., only. Further particulars from "Caryoph" (200/9), Office of this Paper.

MANCHESTER.—Must be sold, compactly fitted Pharmacy in a good-class populous suburb of Manchester; with attention a good trade could be done; convenient house; low rent; no near opposition; established ten years; will take reasonable offer for fittings before removing them from Highfield Street, Cheetham, Manchester. Address J. Brown, 12 Company Street, Rishton, near Blackburn.

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6.—LONDON SUBURB, S.E.—Very profitable sound cash Retail; no Panel or Dispensing; returns £2,000; net profit £700; splendid main road position; well fitted and stocked; owner retiring; price £1,500.

7.—CRYSTAL PALACE (Near).—Middle-class Retail and Dispensing; returns over £1,200; good profits; no immediate opposition; low rent; fully stocked; price £675.

8.—LONDON, S.W.—Good-class Retail and Dispensing Business; in fine position, close to busy station; returns £1,000; no panel; clear net profit over £500; books properly kept; scope for increase, owner retiring; price £450; part could remain; strongly recommended.

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We are in immediate want of sound concerns returning from £700 upwards; town and country; cash buyers waiting; intending vendors are cordially invited to correspond. Terms on application. Established 1870.

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Recommended by The British Drug Houses, Ltd.; Messrs. Meggison & Co.; Barclay & Sons, Ltd.
Valuer to the Association of Manufacturing Chemists.

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FOUR sets of Pill-cutting Rollers, 7" x 4½", with stand; one set 9" x 4½", with stand; all for power. Apply 192/9, Office of this Paper.

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JACKETED Copper Steam Boiling Pans on tripod stands, 20 gallon, £18, £20; Copper Gas Water Boilers on stands, 3 gallon 55s., 10 gallon 85s.; Semi-rotary Pump, £3; Bottle-filling Machine, £18; Personal Weighing Machine, £4 10s.; two White Glass Decanter-shape Carboys, new, 25s. pair; Berkefeld Filters, 1 candle, copper, 45s.; 3 candle, Enamel, 75s. Jackson's, Pownall Square, Liverpool.

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A DVERTISER is desirous of purchasing Drug Store or business, with scope for increase for energetic young unqualified; must be cheap, and preferably in London. "Chemicus" (195/28), Office of this Paper.

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MIXED Cash Drug Stores, with good modern house and garden attached (to suit unqualified). Please state fullest particulars, capital at hand (not previously advertised), "Statim" (201/10), Office of this Paper.

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P ARIS.—An English or American firm, desirous of introducing Proprietary Medicines in France, can arrange for office and warehouse and other facilities in central position. Address Chatel-Guyon Miraton, 9 Rue Auber, Paris.

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A GENTS wanted for their respective grounds; 20 per cent. commission on all net accounts paid; orders booked, repeats, letter orders, etc., from the trade; a Proprietary medicine showing 33½ per cent. profit to the retailer; kindly state goods already carrying, duration of connection, exact ground, and references, not originals. Reply to 171/23, Office of this Paper.

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T HE LEASEHOLD of a capable man for sale, calling on London and suburban Chemists; a good side line wanted; 14 years' experience; top-hole references. Apply 174/12, Office of this Paper.

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BY ORDER AND FOR ACCOUNT OF THE MARSHAL OF THE ADMIRALTY.

Ex s.s. STOCKHOLM, Writ 98, 16/4/16.
450 DOZEN RAZORS.
30 KILOS. PERFUME.

DE BENHAM, STORR & SONS, LTD., will Sell the above property at the Inns of Court Hotel, Holborn, on THURSDAY, JANUARY 16th, 1919, at 12 o'clock precisely.

On view the day prior to and the morning of sale at the Inns of Court Hotel, Holborn, W.C.

Catalogues on application to Mr. Rogers, the Surveyor of Customs, Inns of Court Hotel, or of the Auctioneers, 26 King Street, Covent Garden, W.C. 2.

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BY ORDER AND FOR ACCOUNT OF THE MARSHAL OF THE ADMIRALTY.

To be Sold by Public Tender, ex BEEKBERGEN, lying at Liverpool, 115 barrels HYPOSULPHITE OF SODA. Estimated weight about 21 tons gross.

Tenders in envelopes, marked "Tender for Hyposulphite of Soda," and addressed to the Admiralty Marshal, Royal Courts of Justice, London, W.C. 2, must be received not later than noon on WEDNESDAY, 8th JANUARY, 1919.

To be sold subject to Government restrictions as to export.

Further particulars may be had on application to the Selling Brokers, D. W. GREENHOUGH & SON, 21 Mincing Lane, London, E.C. 3.

SITUATIONS OPEN.**RETAIL.**

ALTRINCHAM.—Qualified and capable Assistant required for good-class Pharmacy; must be a good Salesman, quick, accurate, and obliging; moderate hours and no Sunday duty; outdoors; good salary to energetic person. Apply, stating full particulars of experience, to R. H. Tootill, Pharmaceutical Chemist.

BIRMINGHAM.—Qualified Assistant required for quick cash and N.H.I. Dispensing business; permanency; would suit elderly Chemist if active. Apply 199/152, Office of this Paper.

BIRMINGHAM.—Qualified Chemist required for quick cash trade and Dispensing; capable of taking charge. State experience and salary required to Wilkins, Chemist, Perry Barr, Birmingham.

BIRMINGHAM.—Qualified Assistant required for progressive, quick cash business; permanency; state age and salary required. Apply "O." (188/212), Office of this Paper.

BIRMINGHAM.—Experienced Manager (qualified) wanted; used to good-class Store business; permanency; energetic and progressive man liberally dealt with. Apply, with full particulars, General Manager, Hedges (Chemists), Ltd., Dale End, Birmingham.

BIRMINGHAM.—Assistant required for Dispensing, N.H.I., and quick Retail; hours 8.30 to 8, Saturday 9, Wednesday half-day closing. State particulars (age, height, and salary), with last three years' references, to 201/23, Office of this Paper.

BLACKBURN.—Wanted (immediately), an energetic, qualified Managing Assistant; good salary to the right man. Give full particulars, references, etc., C. A. Critchley & Co., Pharmaceutical Chemists, 10 King William Street, Blackburn.

BRADFORD (NEAR).—Elderly qualified Assistant; easy hours; duties light; permanency. "L. M." (199/153), Office of this Paper.

BRISTOL.—Wanted, an Assistant for about two months. Apply, with full particulars, to Buxton & Grant, 176 Whiteladies Road, Bristol.

BRISTOL.—Junior Assistant wanted for Dispensing and quick Retail business. Apply, with salary required, age, height, also references, to F. Moss, 206 Redland Road, Bristol.

DARLINGTON.—Managing Assistant required; abstainer preferred. Apply, stating age, height, experience, and salary required, to Waters, Chemist, Darlington.

DERBYSHIRE.—A reliable qualified Assistant required for small middle-class Retail business with N.H.I.; hours moderate; no holiday or Sunday duty; a permanency for the right man. Salary and recent reference to 198/16, Office of this Paper.

FOREST HILL, S.E.—Branch Manager (qualified) wanted immediately to develop a young business; must be capable, active, honest, sober, and well recommended; progressive salary. Apply, stating usual particulars, to Pharmacist, 509 Fulham Road, S.W. 6.

GLOUCESTER.—Unqualified Assistant (lady); two kept; outdoors; good-class Dispensing and Light Retail; easy hours. State full particulars, with salary, to Ward & Woodman, Gloucester.

HERTS.—Wanted at once, Assistant (lady or gentleman) for Light Retail and Dispensing business; capable and reliable, salary, experience, etc., Gibbs, Chemist, Berkhamsted.

HIghbridge.—Junior Assistant required (January 1st, 1919). Full particulars of experience and salary required (outdoors) to Orchard, Chemist, Highbridge.

HULL.—Qualified Manager required for Light Retail and Dispensing business; permanent and progressive berth; interest in the profits offered. "M. C." (199/150), Office of this Paper.

IPSWICH.—Wanted, unqualified Assistant for Light Retail and N.H.I. Dispensing, etc.; easy hours. Apply, with full particulars, to W. H. Stones, Pharmacist, 21 Tacket Street, Ipswich.

LEICESTER.—Wanted, Junior or Improver. Send full particulars as to age, experience, salary, etc., to F. W. Goodess, Uppingham Road, Leicester.

LINCOLN.—Wanted, qualified Manager, capable of taking entire control of business, to live either on or off the premises. Send full particulars, references, etc., to E. R. Dixon, West Hill House, Lincoln.

LONDON.—Lady (Minor) to take charge of small business, which has been managed by a woman. Pharmacist for some years. State salary (non-resident), 198/13, Office of this Paper.

LONDON.—Qualified single young man required; capable of taking charge in absence of principal; excellent prospects and a permanency. "H. L." (188/213), Office of this Paper.

LONDON.—Wanted, a Managing Assistant; qualified; good salary and commission to suitable man. Apply, with particulars as to age, reference, etc., to Marshall & Co., 78 High Street, Kingsland, E. 8.

LONDON.—Young, energetic, qualified Sub-Manager, about 30, for a quick cash, modern, middle-class business; N.H.I.; good salary and exceptional prospects open to an ambitious young man with undeniable references. In reply please state age, height, weight, if in provinces enclose photo (which will be returned), to 199/40, Office of this Paper.

LONDON, E.—Elderly qualified Chemist required for Dispensing and Light Counter work; state age and salary required; permanency. "T. S." (199/15), Office of this Paper.

LONDON, N. 4.—Wanted, for February 3rd or 10th, reliable and capable Assistant for quick cash business; hours 9 till 8, Saturdays 9, close at 1 on Wednesdays, duty every other Sunday evening only from 6 till 8. Salary to start £4 per week. Particulars or personal call to Pirie, 4 Grand Parade, Harringay.

LONDON, N.W.—Wanted, a part-time Assistant for Light Dispensing and Retail; half-days, mornings, and evenings, etc. Please state full particulars to 188/23, Office of this Paper.

LONDON, N.W.—Wanted, Junior Assistant; unqualified; good Dispenser. State experience and salary required (indoors or out), W. H. Hoare, 54 Willesden Lane, N.W.

LONDON, S.W.—Wanted, a qualified Assistant; live in; must be a quick, accurate, and neat Dispenser; state age and salary required; a lady Assistant kept. Apply to John Selley, Chemist, 202 Earls Court Road.

LONDON, S.W.—Assistant wanted for N.H.I. and Counter; hours 9 to 1 and 2 to 8; outdoors. Give usual particulars, Garton, 78 Plough Road, Clapham Junction, S.W. 11.

LONDON, W.—Wanted, Junior Assistant (outdoors); good Dispensing experience essential. Apply, giving age, salary required, and full particulars, to J. G. Gould, 23 North Audley Street.

LONDON, W.—A qualified Dispenser. Apply by letter, stating experience and salary required, Squire & Sons, Ltd., 415 Oxford Street, London.

LONDON, W.—Wanted (immediately), Assistant for Counter and Dispensing. Apply the Manager, Heppell & Co., 26 Piccadilly.

LONDON, W.—Wanted (immediately), Junior Assistant (outdoors) to assist in Dispensing. Apply, stating usual particulars, to "K." (2/70), Office of this Paper.

LONDON, W.—Competent qualified Assistant required; immediate vacancy. Write or call, Rouse & Co., 12 Wigmore Street, W.

LONDON, W.—Competent Assistant required, mainly for Dispensing, in first-class Dispensing business; staff of three; outdoors. Apply by letter, giving full particulars and stating salary, to Mr. Fred. Piper, 5 Alwyne Mansions, Wimbledon, S.W.

LONDON, W.—Smart qualified Assistant required for Counter; good general experience essential. Apply Manager, Allen & Hanburys, Ltd., 7 Vere Street, W. 1.

LONDON, W.—Qualified Manager, used to quick Store business in working-class district, wanted shortly; a steady, honest, sober, industrious worker and good Prescriber will find this a good opportunity. Apply, giving full particulars and salary desired, to Morton's, Cash Chemists, Ltd., 199 Portobello Road, Notting Hill, W. 11.

LONDON, WEST.—Manager, qualified, for good-class business in rural district; not heavy work; suit man requiring light post for three months, with opportunity of management of larger business at hand; required immediate; hours 9 a.m. till 7 p.m., Wednesday 1 o'clock, Saturday 8.30, Sunday evening 1 hour. Send full particulars, or call for interview, Goodall, Chemist, 66 Lower Richmond Road, Putney.

MALVERN.—Unqualified Assistant required for high-class business; good opening for young man of good address; good Dispensing and Counter experience is essential; permanency. Apply "M." (188/211), Office of this Paper.

MANCHESTER.—Qualified Manager required; energetic and capable Counterman; lady Assistants kept; permanency to the right man; salary £5. Apply, with full details, to 194/32, Office of this Paper.

MANCHESTER.—Wanted, a qualified Dispenser (Minor), male or female, for the Dispensary at Ancoats Hospital, Manchester; salary £175 per annum. Apply, stating age, qualifications, and past experience, to the Secretary.

MARGATE.—Wanted, an unqualified Assistant; outdoors. V. J. Woolls, Chemist, Margate.

NORTHAMPTON.—Capable Assistant for high-class Dispensing business; no N.H.I. work; three Assistants kept; good salary (outdoors) to reliable man. Apply McKinnell, Chemist, Northampton.

NORWICH.—Wanted (immediately), qualified Assistant; outdoors; capable of taking sole charge of mixed business; comfortable post. Send full particulars, salary, and photo if possible to Robinson & Co., Chemists, Norwich.

RADCLIFFE, MANCHESTER.—Wanted, qualified Manager for branch shop; Light Retail and N.H.I. Dispensing; no Sunday duty; good house attached if required; usual references or personal interview. Smith & Son, Chemists.

SHEFFIELD.—A qualified Assistant or Manager for branch shop required; busy locality; plenty of scope for suitable gentleman to increase takings and to share in the increase. State salary required, etc., to E. Tibbles, 65 Rustlings Road.

SHEFFIELD.—F. Medley, Pharmacist, Pitsmoor, has vacancy for qualified Managing Assistant (lady or gentleman) for branch; Light Retail and Dispensing. Full particulars, age, experience, salary, etc.

SHEFFIELD.—Messrs. G. T. W. Newsholme, Ltd., 27 High Street, Sheffield, require qualified Assistant with good experience. Address applications, giving full particulars, salary required, and references, to Mr. Austen.

SOUTH DEVON.—Qualified Manager for branch business wanted about middle January. Particulars as to age, reference, experience, etc., and salary required (residence provided), to Holman, Ham & Co., Ltd., Market Street, Exeter.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

VICTORIA, S.W.—Whole or part time Assistant required for Light Retail, Dispensing, and Stock. Apply, with full particulars, to "X. Y. Z." (199/53), Office of this Paper.

WEST RIDING.—Elderly qualified Chemist required (immediately); duties light; easy hours; permanency. Apply "L. M." (188/210), Office of this Paper.

WEYMOUTH.—We require an Assistant, qualified or otherwise, who is a smart Salesman with a knowledge of Photography, and who, in the absence of the owner, can also buy and keep books if necessary. Full details please, Cole & Son, Weymouth.

WINDSOR.—Lady Dispenser required (immediately). Apply, with full particulars, stating salary required, to J. J. Pickering, Chemist, 50 High Street, Windsor.

A QUICK and accurate Dispenser, with good general experience, wanted for good-class country Retail and Dispensing. Apply, stating age and salary required (outdoors), "Omega" (191/29), Office of this Paper.

ASSISTANT for mixed Agricultural business in West of England; short hours; no Sunday duty. Full particulars with photo, to be returned, 193/27, Office of this Paper.

ASSISTANT (unqualified) for City business; high-class; preferably one with London experience; good Window-dresser; permanency. Apply, with full particulars, to General Manager, Hedges (Chemists), Ltd., Dale End, Birmingham.

ASSISTANT for good-class and mixed country business in Cheshire, within reasonable distance of Manchester. Full particulars to 201/260, Office of this Paper.

ASSISTANT required, unqualified; outdoors; N.H.I., etc.; part-time would be entertained. G. L. Austin, Pharmacist, 176 High Street, Hounslow.

ASSISTANT required, lady or gentleman, for Dispensing and Counter; indoors or outdoors. Williams & Peters, 165 Fortress Road, N.W.

AT ONCE.—Branch Manager (qualified) for brisk good-class Retail Pharmacy; must be energetic, experienced, gentlemanly and reliable, and capable Window-dresser. Address full usual particulars, stating salary required (outdoors) and giving references, to Barkers, Chemists, Grimsby.

BRANCH Manager for good-class Retail and Dispensing business; with knowledge of Optics preferred. Applications, giving details of experience, age, height, and salary required (residence attached), to D. T. Evans, Chemist, Margate.

BODY'S Pharmacies, Chemists and Ophthalmic Opticians, Southend and Westcliff, invite correspondence with young qualified and unqualified Chemists now serving in Army, who would like to enter into immediate negotiations with a view to engagement upon demobilisation; exceptional facilities for acquiring Optical practice, and experience would be afforded F.S.M.C. or D.B.O.A. applicants; progressive salaries and congenial positions assured to right men. Write full particulars first letter, stating age, experience, salary required (in- or outdoors), and enclose recent photo.

CAPABLE Assistant, qualified or not, for few months, or perhaps indefinitely; reasonable hours; N.H.I. once in six weeks. State full particulars, salary required, etc., Smith, Chemist, Durham.

COMPETENT Assistant wanted for good-class county Dispensing and Retail (outdoors); quick and accurate Dispenser; good references. Apply, stating salary required and age, to Henry Davis, Chemist, Northbrook Street, Newbury, Berks.

COMPETENT Assistant, lady or gentleman, with experience of good-class Retail; outdoors. Please state age, experience, qualification, salary required, when at liberty, and enclose photo (to be returned), L. J. Reade, Pharmaceutical Chemist, 17 Lichfield Street, Wolverhampton.

DISPENSER required for the North of London branch; lady or gentleman. Apply Lewis & Burrows, Ltd., 146 Holborn Bars, E.C.

EARLY.—Unqualified Junior Assistant (male) wanted for busy general Retail and Dispensing trade; must be pushing and trustworthy. Address full usual particulars, with salary required (outdoors), and giving references, to Barkers, Chemists, Grimsby.

IMMEDIATELY.—Qualified Chemist wanted as General Manager for two busy Retail establishments; well experienced in buying, bookkeeping, and control essential. Address, stating age, height, salary required (outdoors), etc., and giving references, Barkers, Chemists, Grimsby.

IMMEDIATELY, qualified Manager for a few months; good salary offered; young preferred. Skitt, Pharmacist, Ramsgate.

JUNIOR Assistant or Improver; also experienced Assistant, unqualified. Apply, with full particulars, to W. H. Green, Pharmaceutical Chemist, Skipton, Yorks.

JUNIOR Assistant wanted; good-class Retail and Dispensing business. State age, salary required, and give references, Woodman, Chemist, Burnham-on-Sea.

JUNIOR Dispensing Assistant wanted (at once); state age, height, and salary required (outdoors), and give last three years' references; hours 8.30 a.m. to 7 p.m.; no late duty. W. Ebanks Smith, 5 Norman Road, St. Leonards-on-Sea.

JUNIOR Assistant wanted for the Counter. Apply, stating age, experience, and salary required, to Townson & Mercer, Ltd., 34 Camomile Street, E.C. 3.

JUNIOR or Improver for high-class family and country business (mid-Cheshire). Apply, with full particulars, 201/26, Office of this Paper.

LOCUM, qualified, for four weeks from about January 6. State terms, Norton, 359 Birchfield Road, Birmingham.

MANAGER wanted; branch; Light Retail and Dispensing; South Wales. Full particulars to 193/32, Office of this Paper.

MANAGER (qualified) for good-class Retail and Dispensing business; knowledge of Photography preferred, but not essential. Also an unqualified Assistant. Age, references, experience, salary required, to J. R. Cave, Ltd., 52 Nevill Street, Southport.

MANAGER required (qualified) for Retail and Dispensing business. State full particulars as to references, experience, and salary required, A. C., 194 Cassland Road, Hackney, E. 9.

MANAGER required for first-class London Dispensing business, to reside upon the premises. Apply, stating age and experience, to "P. B." (200/19), Office of this Paper.

MESSRS. ALLEN & HANBURY'S, LTD., 37 Lombard Street, E.C. 3, require a qualified Assistant for the Retail Counter. Applications should be addressed to W. H. J.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

QUALIFIED Chemist, one desiring permanency preferred, to take part in the management of a small provincial Wholesale house; knowledge of Compressed Tablets and Lozenges essential, as this department may be developed considerably. State previous experience, age, and salary expected, 185/5, Office of this Paper.

QUALIFIED Manager for branch near Southampton; house attached if required; hours moderate. F. B. Wride, East Street, Southampton.

QUALIFIED young man (single) required immediately; excellent opportunity for one who is anxious to make progress; must be energetic and absolutely reliable. "H. L." (199/151), Office of this Paper.

PROGRESSIVE permanency for a qualified Managing Assistant in business of private limited company; must be thoroughly capable; every consideration shown to right man; working-class neighbourhood; N.H.I. Dispensing and Prescribing; hours 10.30 a.m. to 8.30 p.m., Thursday 1 o'clock, Sunday night 6.30 till 8. Please give full particulars to Ph.C. e/o A. J. Preston, Ltd., 16 Summer Road, Peckham, S.E. 15.

QUALIFIED Assistant, lady or gentleman, also Junior, for the New Year; N.H.I. Dispensing and quick Counter trade; no Sunday duty. Please give full particulars of experience, salary required, and enclose photo, H. G. Williams, 118 The Moor, Sheffield.

QUALIFIED Assistant wanted (at once) for good-class Dispensing and Retail business. Apply, giving full particulars, to Manager, Lewis Wing, Ltd., 86 Regent Street, Weston-super-Mare.

QUALIFIED Assistant; comfortable berth; easy hours. State terms and when disengaged, "X. Y. Z." e/o James Woolley, Sons & Co., Victoria Bridge, Manchester.

QUALIFIED Manager for busy market place in London, E. Apply Duncan, 99 Cyprus Street, Bethnal Green, E. 2.

QUALIFIED Chemist required as Assistant in a sound business in the Midlands, with a view of hereafter acquiring the business or a partnership. Apply 199/32, Office of this Paper.

QUALIFIED Manager for working-class business in the centre of London; good opening, with a liberal interest in the profits. Apply 200/29, Office of this Paper.

QUALIFIED Assistant (outdoors) end of January, in good Dispensing and Retail business; South of England. Send full particulars to 201/7, Office of this Paper.

REQUIRED, a qualified Assistant to manage branch business; please give the usual particulars. Apply A. J. Hall, Pharmacist, 196 Belsize Road, Hampstead, N.W. 6.

REQUIRED in an Agricultural and Dispensing business, an unqualified Assistant; lady or gentleman; hours 8.45 to 7 p.m., Saturdays 8 p.m. Apply, with full particulars of age, experience, and salary (outdoors), to Gostling & Co., Chemists, Diss, Norfolk.

SAVORY & MOORE, LTD., Lancaster Gate, W. 2, require the services of qualified Assistant (male); accustomed to first-class Dispensing; outdoors. Full particulars to the Manager.

THE GENERAL HOSPITAL, BIRMINGHAM.—The Committee require, in the near future, an experienced and qualified Chief Assistant Dispenser; preference will be given to a man who has held a similar position in a Naval or Military Hospital; salary according to qualifications. Apply, giving age, qualifications, and full details of work done, to the House Governor, General Hospital, Birmingham.

THOROUGHLY capable Assistant required (at once); qualified preferred. Nathl. Smith & Co., 375 High Street, Cheltenham.

UNQUALIFIED Assistant wanted for Counter, with some Dispensing and making of specialities; must be trustworthy and active; one desiring a permanency preferred; good salary. Apply in writing, with full particulars, to C. F. Hitchen, Chemist and Optician, Uxbridge, Middlesex.

UNQUALIFIED Assistant wanted for Counter and Dispensing; good salary; occasional Sunday evening duty. Apply personally, Wm. Fox & Sons, Ltd., 109-115 Bethnal Green Road, E. 2.

WANTED (immediately), fully-qualified male or female Dispenser; good wages; live out; permanency. Apply Manager, Junior Army and Navy Stores, Ltd., Union Street, Aldershot.

WANTED to apprentice, a youth age 16, just left school, to the Retail, where a good sound knowledge of the business can be gained. Please give full particulars to "Apprentice," 9 Wickham Lane, Plumstead, S.E. 18.

WANTED, reliable qualified Managing Assistant; Manchester district. State particulars as to salary, etc., to 188/15, Office of this Paper.

WANTED (immediately) for Retail Counter, male Assistant; hours 8.30 to 6 p.m.; no Sunday duty. Apply, with full particulars, to the Manager, Drug Department, the Junior Army and Navy Stores, Ltd., 15 Regent Street, S.W. 1.

WANTED (immediately), an unqualified Assistant (male), chiefly for the Dispensing Counter. W. R. Ames, 142 High Street, St. John's Wood, N.W. 8.

WANTED, an energetic Assistant for a Light Retail and Dispensing business; good progressive salary to suitable applicant. Reed, Chemist, Ilfracombe.

WANTED (shortly), qualified man as Manager (outdoors) for quick up-to-date business; hours 9 a.m. to 7 p.m.; Sunday duty one hour alternate weeks. Apply, with full particulars, C. Brees, 119 Mitcham Lane, Streatham, S.W. 16. Phone 446 Streatham.

WANTED, qualified Manager for high-class Family Store trade on South Coast; not Brighton or Hove; good salary and commission on profits; permanency; applicants must have good appearance and address; used to high-class trade. State full particulars, age, height, salary required, when disengaged (could wait four to six weeks for right man), "Chemist," 20 Monte-Sainte-Véronne Road, Hove.

WANTED, a qualified Assistant for business in country town; outdoors. State all usual particulars, including salary, to Mrs. Trewicks, Main Street, Pembroke.

WANTED, qualified Manager for brisk trade; also unqualified Assistant (temporarily); good remuneration to suitable men. F. D. Finn, 193 Battersea Park Road, S.W. 11.

WANTED (immediately), lady Dispenser-Bookkeeper, Hall qualification, for North London suburb; live out. Apply, giving full particulars, salary required, etc., to Dr. Mailer, 86 Alexandra Park Road, Muswell Hill, N. 10.

WANTED, qualified Assistant or Assistant Manager for good-class Dispensing business; good references. Apply 201/22, Office of this Paper.

£220 per annum (outdoors) to a thoroughly competent and experienced Dispenser; only one used to high-class Dispensing need apply. Address 201/39, Office of this Paper.

WHOLESALE.

LANCASHIRE Manufacturers, with up-to-date works, latest machinery, require a smart Chemist; experienced in the manufacture of Compressed Tablets, Ointments, Extracts, and Toilet preparations; must be thoroughly reliable and capable. State age, experience, and salary required for permanency to 3/2, Office of this Paper.

LONDON.—Wholesale house requires competent Clerk to take charge of invoicing, dispatching, and superintending Surgeons' Medical and Sundries department. Apply, stating previous experience, age, and salary required, to "Surgeon" (8/48), Office of this Paper.

WALES.—Representative wanted for well-introduced Toilet Lines, etc.; must have established connection. Give fullest particulars to 6/56, Office of this Paper.

A THOROUGHLY good Assistant Manager is required for the packed goods department of a North of England house; similar experience an advantage, though not a necessity; good opportunity for suitable applicant. Apply, giving fullest particulars in the first instance, to 4/9, Office of this Paper.

A THOROUGHLY competent and energetic Tablet Manager is required by a North of England house; the position offers ample scope, and should appeal particularly to a man of ideas and the force required to place these ideas into practical use. Applicants should give fullest particulars in the first instance, and state when disengaged. Apply 8/18, Office of this Paper.

ASSISTANT Perfumer required in the Midlands; one who has had French experience preferred. Please state fullest particulars of experience and salary required, "Province" (6/23), Office of this Paper.

COUNTERMEN for Wets and Drys required by London Wholesale house. State experience, age, and salary required to "Cascars" (8/480), Office of this Paper.

DRUGGISTS' man wanted; experienced in Balsams, Powders, etc. State full particulars, age, salary, etc., Burdall & Burdall, Anchor Works, Sheffield.

EXPERIENCED Manager required for sundries and packed goods department; Wholesale only; must have initiative and knowledge of markets. State fully experience, age, and salary required, in confidence, to 197/33, Office of this Paper.

EXPERIENCED Export Packers required by London Export Druggists. Apply to "Packer" (8/481), Office of this Paper.

FOREWOMAN required; accustomed to supervising girl packers of Perfumes and Toilet preparations; good pay and prospects. Please state fullest particulars of experience and salary required, Cuxson, Gerrard & Co., Ltd., Oldbury.

GALENICALS.—Wanted by Manufacturing Chemists in Suffolk, a man efficient in making up Galenicals, to take lead in department under Manager. State experience, age, and salary required to C. Stallon, 62 Bank Chambers, London, W.O. 2.

GOD man required, with full knowledge of Wholesale Chemical trade and markets, particularly chemicals affecting agriculture; must have had first-class experience. Reply with full particulars, stating salary, etc., to 5/690, Office of this Paper.

INVOICE CLERK.—Thoroughly capable Invoice Clerk required by provincial Wholesale house; must thoroughly understand pricing Drugs and Sundries. Address, stating age, experience, and salary required, 5/54, Office of this Paper.

LABORATORY hand required; one used to manufacture Galenicals; good prospects. State full experience and wages required, 224/47, Office of this Paper.

LABORATORY.—Man wanted in old-established London house; strong and capable, with experience in making B.P. Liquors, Ointments, Syrups, etc. Write particulars of previous employment and wages expected to 7/61, Office of this Paper.

LABORATORY Manager (qualified Major preferred) required by Lancashire firm of Wholesale Druggists; previous experience in manufacture of medical specialities and Galenicals of all kinds essential. Apply, with full particulars of experience, salary required, to 8/56, Office of this Paper.

MALT EXTRACT MANUFACTURE.—Wanted, thoroughly competent Manager, with necessary Engineering knowledge, to take entire management of Malt Extract plant situated in centre of agricultural district in Yorkshire. Replies, in confidence, to E. Manning Kerr, 125 Norfolk Street, Sheffield.

MANUFACTURING Chemists (North of England) require the services of a capable man with good experience of the manufacture and introduction of new and up-to-date Toilet articles and specialities. State age, experience, references, and salary required to 198/12, Office of this Paper.

MANUFACTURING Pharmacist required, with all-round experience in the manufacture of Galenical preparations, to take sole control in the Laboratory of Wholesale and Export Manufacturing Chemists in London; must be fully conversant with all branches; salary £300 per annum. Apply, stating full particulars as to experience, etc., to 4/68, Office of this Paper.

OLD-ESTABLISHED London Wholesale house require a Representative for their Sundries and Packed Goods for South Wales. Apply "E. G. R." (5/57), Office of this Paper.

REPRESENTATIVE wanted, having good connections in London with Retail Chemists and Perfumers, by Manufacturers of Toilet articles. Apply 8/33, Office of this Paper.

PILL and Tablet Maker (experienced) wanted by old-established Wholesale Druggists, S. London. State wages required to 4/61, Office of this Paper.

REQUIRED by an old-established firm, a gentleman to represent them amongst Doctors, Chemists, and Hospitals in the North of England; one at present representing a Surgical Instrument firm would be considered. State usual particulars in confidence, 199/24, Office of this Paper.

SHIPPING Clerk, thoroughly experienced, wanted for the export department by a firm of Wholesale Chemists in the Midlands; one with a knowledge of the trade preferred; also lady Clerk with similar experience. Address, stating age and salary required, with full particulars, to 7/22, Office of this Paper.

TABLET COMPRESSING.—Allen & Hanburys, Ltd., Bethnal Green, E. 2, require the services of an experienced man for Compressing Medicinal Tablets. Write full particulars as to age, experience, and wages required, to "P. S. K." c/o above.

TRAVELLER required, London and provinces, calling on Hairdressers and Chemists; Toilet articles, Brilliantine, Perfumes, etc. Write 195/29, Office of this Paper.

VACANCY occurs for first-class Agricultural Research Chemist who has thorough knowledge of agricultural and horticultural work; must be man with good record and experience; good salary to suitable candidate. Reply in confidence, with full details of experience and salary required, to 5/69, Office of this Paper.

WANTED (at once), smart reliable Manufacturing Chemist; experienced in the making of Food Products supplied to Grocery and Confectionery trade; liberal terms, with interest on results, to suitable applicant. Write, giving age, experience, and salary required, to 180/13, Office of this Paper.

WANTED by a firm of Wholesale Manufacturing Chemists in the Northern Midlands, a competent man to take entire charge of the manufacturing Laboratory for the preparation of all Galenicals and manufactured articles kindred to the Chemists' business. In applying please give the fullest particulars as to age, experience, salary, etc. Apply 8/13, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

CEYLON.—Assistant, unqualified, age 22-28, single, wanted for first-class British business; four years' agreement; passage paid; liberal salary to smart man with good-class Retail Dispensing and Counter experience. Give full particulars of experience, and state present salary, to 203/9, Office of this Paper.

FAR EAST.—One or two qualified Assistants; age 21 to 30; must have had good experience in first-class Dispensing and Retail business; liberal salary for suitable men; three or four years' agreement; passage paid out and home. Address "Export," 64 Crutched Friars, E.C.

JAPAN.—Wanted immediately, as Fourth Assistant (qualified preferred) in a first-class Chemist's business at Kobe; easy hours; four years' contract; passage paid out and home; no ladies or married men need apply. Send for full particulars, with photo, to J. W. Franklin, c/o Bailey's Hotel, Gloucester Road, S.W. 7.

JAPAN.—Two qualified Assistants wanted for Yokohama. Salary £20 per month, increasing to £30; free furnished quarters, with lighting and heating; free passage out and home. For details apply M. H. S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, London, E.C. 1.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]

RETAIL.

A YOUNG qualified man (25) wants temporary post (a few months) as Dispenser; West-End preferred; or Managership with view to early succession, in provincial town within 30 miles of London. Apply 82 Courtland Avenue, Ilford.

A UNQUALIFIED good experienced Senior Assistant requiring a permanency, N.H.I. qualification, married, desires to correspond with any gentleman requiring same; Midlands; disengaged. "Kay" (201/2), Office of this Paper.

A S Assistant in a good-class business, with a view to succession or partnership; West-End experience. Apply, in confidence, to 199/14, Office of this Paper.

A S Dispenser; London preferred. Apply Chemist, 42 Osborne Road, Southsea.

A S Manager; qualified; disengaged January 6th; experienced; a good Salesman and Prescriber. Apply 186/32, Office of this Paper.

A S Manager; qualified; 22 years' experience; 13 years present firm; brisk Cash Retail or good-class Stores. Apply 194/3, Office of this Paper.

A S Manager of small business, with view to succession; middle-aged; experienced; qualified. Apply 198/10, Office of this Paper.

A S Manager; qualified; 41; disengaged. Please state salary offered (commence duties early). 201/3, Office of this Paper.

A SSISTANT, unqualified, 32, will correspond with gentlemen who are requiring reliable Pharmaceutical assistance, and who are prepared to offer suitable remuneration; tactful with customers, experienced Dispenser; can take charge in absence of principal. "Confidence" (193/40), Office of this Paper.

A SSISTANT Dispenser, four years' experience, not qualified, could do little Counter work. Apply 188/33, Office of this Paper.

A SSISTANT or Manager; good general experience; 46 years; 5 ft. 10 in.; unqualified; at liberty January 5. Gregory, 5 Marble Hall Road, Milford Haven.

A SSISTANT or Dispenser; 21; six years' good all-round experience; excellent references; abstainer; disengaged. Evans, The City Road Pharmacy, Roath, Cardiff.

A SSISTANT requires situation in London, with facilities for study for Minor; had good experience in high-class work and Dispensing; excellent references. Address "Ex-Army Officer," 4 Ashley Street, Shrewsbury.

A SSISTANT; good experience and good references, W. R., 44 Park Street, Horsham.

CHEMIST, 51, active, married, desires position as Assistant or Manager; now disengaged; Apprenticeship, Minor, and Hall certificate. Apply 198/7, Office of this Paper.

DISCHARGED Junior; Liverpool or Manchester preferred; five years' good experience in Dispensing, Photography, and Optics; London experience; age 22; height 5 ft. 11 in. Parry, Cefn Coed, Waenfawr, Carnarvonshire.

DISENGAGED; Locum; permanency; reasonable hours and salary; excellent experience and references. Chemist, 122a Holland Road, W. 12.

EVENINGS; part-time; lady; unqualified; capable, conscientious; Counter, Bookkeeping, N.H.I. Apply 199/34, Office of this Paper.

L.P.S.I., first-class Dublin experience, highest references, desires situation; London; West-End preferred. Apply 194/34, Office of this Paper.

LADY Dispenser and Bookkeeper (Hall) seeks post with Doctor or Institution; three years' experience; excellent testimonials. Apply 186/35, Office of this Paper.

LADY Dispenser (Hall) seeks post with Doctor or Chemist; two years' experience; disengaged now. Apply 186/29, Office of this Paper.

LADY Minor disengaged; tall; capable, experienced. Apply 197/35, Office of this Paper.

LADY Dispenser (Hall) requires evening work; City, East or North-East preferred. Address 199/20, Office of this Paper.

LADY (Hall), lately qualified, seeks post as Dispenser; if Chemist, Dispensing only. Miss A. White, Bowling Green, Strabane, co. Tyrone, Ireland.

LADY Dispenser, holding Apothecaries' Hall certificate, having had seven years' experience, seeks an engagement; resident or otherwise; London or suburbs preferred; highest references. Miss Davy, 9 Tavistock Road, West Croydon.

LADY (Hall) seek post as Assistant Dispenser in Brighton or neighbourhood; part-time or short hours; three years' experience. Apply 201/13, Office of this Paper.

LIVERPOOL OR MANCHESTER.—Junior; four years' good experience in Dispensing, Photography, and Optics; height 5 ft. 10 in.; age 17 years. Parry, Castle Pharmacy, Carnarvon.

LOCUM; Manager; disengaged; 51; Major, 23 Cuthberts Terrace, Blackhill, Durham.

LOCUM, 42, qualified, open to book dates; London; experienced in Optics and Dentistry. Elliott, 168 Camden Road, N.W. 1.

LOCUM Tenens; disengaged January 8th; experienced. "L. T.", 14 Oxford Street, Abergavenny, Mon.

LOCUM; high-class experience; town or country; disengaged; abstainer; middle-aged; capable and energetic. W. B., 40 King Street, Maidstone.

LOCUM or Temporary Manager, Chemist, 46, many years' successful proprietor; has few weeks at liberty before taking over new business. Apply 201/50, Office of this Paper.

MANAGER, qualified, 37, with or without view to further interest, energetic, well up in all branches of profession and business, at liberty January 12th. Apply 193/39, Office of this Paper.

MANAGER, 42, qualified, desires responsible position in London; with view to succession preferred; can introduce Sight Testing or Dental departments. Apply Elliott, 163 Camden Road, N.W. 1.

MANAGER, qualified, age 39, seeks a change; highest references; present position nine years as Manager of up-to-date Store business; receipts and profits have increased fivefold. Please state full particulars to "M.P.S." (197/19), Office of this Paper.

MANAGER (branch); qualified; married; good experience; permanency. State terms, etc., to "Chemist," 75 Queen's Park Road, Brighton.

MANAGER; 55; small business or branch; capable; well recommended; abstainer. J. S., 139 Linthorpe Road, Middlesbrough.

MANAGER; unqualified; experienced; trustworthy; highest references. Farquhar, Railway Hotel, Arklow.

MANAGER (temporary or otherwise); qualified; 55; active, healthy; much experience; excellent references; first-class Dispenser and Prescriber; abstainer, married, no family. Apply 199/2, Office of this Paper.

MANAGER, 42, qualified, desires responsible position in London; with view to succession preferred; can introduce Sight Testing or Dental departments. Apply Elliott, 163 Camden Road, N.W. 1.

MANAGER; 50; twenty years' experience as Manager; permanency. Full particulars as to salary, etc., to D. O. C., 26 Fox Hill, Upper Norwood, S.E. 19.

MANAGER OR RESPONSIBLE POSITION.—Pharmacist, 30; tall, married, high-class experience (Kennington), present situation over six years; desires change; would entertain succession. Full particulars, 200/34, Office of this Paper.

MANAGER or Locum; small business; South of England; 26; energetic. Full particulars, "Jalap" (200/10), Office of this Paper.

MANAGEMENT Drug Store or otherwise; exceptional references. "A.", 241 Seven Sisters Road, N.

MANAGERSHIP; elderly gentleman; businesslike, tactful, persuasive manners; moderate salary; progressive; interview. "Nomsing." (199/19), Office of this Paper.

PART-TIME; lady; unqualified; reliable; N.H.I., Counter, good Saleswoman, bookkeeping. Apply 199/340, Office of this Paper.

PH.C., 37, married (wife qualified), invites correspondence with view to Managership; partnership or succession; conjoint job for both preferred; nine years' pre-war managership; good references. A. G. Cope, 22 Paget Road, Wolverhampton.

QUALIFIED lady Dispenser and Bookkeeper seeks post at Aldershot or near; nearly three years' experience; excellent testimonials. Apply 186/350, Office of this Paper.

QUALIFIED; Managership or locum; 16 years' experience; Optical qualification; succession entertained. "F. S. M. C." (197/21), Office of this Paper.

QUALIFIED; excellent all-round experience and references; disengaged January. Apply 188/14, Office of this Paper.

QUALIFIED Manager, 30 years' experience in all branches, disengaged January 13th; locum, permanent, or executive position. Peacock, 54 Richmond Road, Abergavenny.

QUALIFIED Assistant, 25 years' Regent Street experience, seeks temporary engagement (two months); West-End or S.W. preferred. Chapman, 62 Lavenham Road, Southfields, S.W.

QUALIFIED Manager, 31, single, at present West-End Dispensing business, desires change; similar capacity or senior; good all-round experience; London. Apply 199/36, Office of this Paper.

QUALIFIED Chemist desires post as Dispenser, Assistant, or Manager; London or country near; permanency; temporary; experienced; disengaged shortly. Smith, c/o Messrs. Pain & Powell.

QUALIFIED as Manager or Assistant; tall, thin, active, experienced; 49. Apply 200/20, Office of this Paper.

QUALIFIED; Branch Manager; Store experience; reliable; successful; married; first-class references; South preferred. "Legis" (200/23), Office of this Paper.

QUALIFIED; elderly; single; best experience; easy hours; moderate salary (London). Apply 201/35, Office of this Paper.

S.W.—Evenings from about 6.30. Rex, 16 Carlton Park Avenue, Raynes Park.

SERGEANT Dispenser (21) invites correspondence with a view to an appointment on demobilisation; London or town possessing School of Pharmacy essential; excellent war and pre-war references. Apply 200/33, Office of this Paper.

TEMPORARY engagement, with view early cash purchase; good-size provincial business. Apply 201/5, Office of this Paper.

TYNESIDE.—Senior; manage or purchase branch; best quick Retail experience; competent all round. Apply 197/26, Office of this Paper.

UNQUALIFIED Student desires part-time berth in London, S.E. or S.W. E. Williams, 287 Queen's Road, Peckham, S.E. 15.

YOUNG lady (24); nine years' experience Bookkeeping, Stock-taking, Retail; good references; Yorkshire preferred. Apply 192/15, Office of this Paper.

YOUNG lady (Hall), desiring to study for Minor, seeks post with Chemist; one year's experience as Doctor's Dispenser. Buttrick, 7 The Ridgeway, Enfield, Middlesex.

YOUNG lady, 18, holding senior school certificate of Loudon University, desires apprenticeship to Pharmaceutical Chemist. Please send terms, 188 Philip Lane, Tottenham, N. 15.

WHOLESALE.

ADVERTISER, many years' experience Chemicals and Drugs, open to represent first-class firm; whole or part time. Apply 199/21, Office of this Paper.

ADVERTISER, with 20 years' experience and thorough knowledge of Retail Chemist's requirements, seeks position as Representative; town or country. March, 10 Milward Crescent, Hastings.

As Representative; experienced Salesman; young and energetic; thorough knowledge of Chemists' requirements. Apply 197/28, Office of this Paper.

COMPRESSED TABLETS.—Smart man, shortly demobilised, R.A.M.C., London, 18 years' thorough practical experience in all matters appertaining to the manufacture of Compressed Tablets, Sugar Coating, etc., eight years' British Drug Houses, five years' late Lee & Co., Kilburn, London, as Foreman. "Baker," 73 Cloudesley Road, Barnsbury, London, N. 1.

DEMOBILISED (Shortly).—Experienced Representative, age 33, good appearance and address, desires progressive position (when discharged home service); Drugs, Sundries, Packed Goods, Surgical appliances, etc.; previous journey Midlands, Eastern Counties; consider changing ground. "Energetic" (197/22), Office of this Paper.

DISCHARGED soldier, age 37, senior qualifications, in British Columbia sixteen years, high-class Dispensing and Retail, also Manufacturing and Wholesale experience, abstainer, desires employment; Wholesale preferred; at home after New Year. C. A. Gilbert, 17 Victoria Grove, Folkestone, Kent.

DISCHARGED; 34; resident in Sheffield; 12 years' trade experience in Proprietaries, Dressings, and Toilet articles; resuming pre-war occupation as Traveller; thoroughly acquainted with Wholesale and Retail buyers in Yorkshire, Lancashire, and counties north; prominent English and German firms previously represented; would consider commission and part-expense terms on sound propositions; highest references. "Mercurie" (200/3), Office of this Paper.

GENTLEMAN (disengaged) seeks position as Representative; experienced traveller, London and provinces, for best houses; highest credentials. Apply 188/35, Office of this Paper.

GENTLEMAN, with considerable experience of the Wholesale Drug trade, desires to better himself, and would like to hear of good post in the fixing of trade prices, lists, estimates, and to take control of quoting or otherwise assist general management with reputed firm. Apply 3/41, Office of this Paper.

GENTLEMAN (44) desires suitable position with good house; town or provinces; many years' experienced Clerk, Traveller, Manager, Sundries, and Proprietaries; Representative's position preferred, but willing do anything. Apply 199/25, Office of this Paper.

PH.C. desires post shortly; Works Chemist or Manager; 20 years' Manufacturing experience; Galenicals, Synthetic Chemicals, Analysis, Research, and Bacteriology. Johnson, 42 Rutland Road, Hove.

PHARMACEUTICAL Chemist, just completed 17 years' continuous West-End managements, desires similarly responsible position; disengaged; would represent Wholesale house London district. "Deva" (200/14), Office of this Paper.

PHARMACEUTICAL Chemist, with 15 years' experience in the manufacture of Chemicals for Leading London Wholesale houses, requiring post as Head Chemist. Apply with particulars.

QUALIFIED, 23, requires situation in Laboratory or Wholesale Manufacturers. Apply 195/27, Office of this Paper.

REPRESENTATIVE; age 38; seven years calling on Chemists and Doctors in Scotland; just released from national work; open for appointment or commissions. J. Duncan, 383 St. George's Road Glasgow.

MISCELLANEOUS.

ABOUT 5 tons Treacle in casks, containing from 4 to 5 cwt., for sale; cask charged 10s. What offers per cwt. for cask lots? Apply 188/2, Office of this Paper.

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ENEMAS; splendid condition; sample dozen sent for 17s. 6d.; 100 dozen to clear; single sample 2s. post free. Also 20 gross Dispensing Bottles, 10 to 40 ounces; would clear these dirty at 15s. per gross; 50 gross second-hand Poisons at 12s. gross; all sizes. Hemmings, 2 Scylla Road, Peckham Rye, London, S.E.

FOR Sale, 1 cwt. Gum Tragacanth, fine; 2 cwt. Gum Acacia Powder, fine white; 2 tons Scotch Paraffin Wax, 118/120 M.P.; 50 lb. Vanillin U.S.P., 100 per cent.; 100 lb. Coumarin U.S.P., 100 per cent.; 100 lb. Thymol Crystals, pure white B.P. Best offers considered. Apply 5/1, Office of this Paper.

FOR Sale, 10 cwt. hard block white Stearine; odourless; M.P. 126/128. What offers? Apply 188/20, Office of this Paper.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

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MISCELLANEOUS.

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WANTED.

WANTED, Index to "Pharmaceutical Journal" for 1916 (vols. 96 and 97). Reply to 2/5s, Office of this Paper.

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